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VOLUME 25

Catalogue of Type Specimens of Fossil Brachiopods in Field Museum of Natural History

Julia Golden

and

Matthew H. Nitecki

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FIELD MUSEUM OF NATURAL HISTORY
CHICAGO, U.S.A.

CATALOGUE OF TYPE SPECIMENS OF FOSSIL BRACHIOPODS IN FIELD MUSEUM OF NATURAL HISTORY

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Catalogue of Type Specimens of Fossil Brachiopods in Field Museum of Natural History

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Custodian of Types
AND
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INTRODUCTION

The catalogue of fossil brachiopods lists the original fossil material and the artificial casts of type specimens housed in Field Museum of Natural History. The type brachiopods are predominantly of Middle and Upper Paleozoic age from the Upper Mississippi and Ohio River Valleys and from New York and the adjoining states. The extensive collection of fossils in Field Museum consists of the Walker Museum of Paleontology collection (prefixed UC) formerly at the University of Chicago, now on permanent loan to the Museum, and the Field Museum material (prefixed P or PE).

In the catalogue, only holotypes are recognized as valid types; all other so-called primary or secondary types are listed as referred specimens. The name of the species and its authorship is entered as it was originally published; in addition, the publication date is always included. An attempt is made to note all subsequent systematic changes. Systematic changes under the heading "Remarks" do not refer specifically to our specimen. The nomenclatural changes attributed to the Museum catalogue were probably made by Stuart Weller. The stratigraphic and geographic data are those of the original authors supplemented by the Museum catalogues. Specimens known to be lost or destroyed are listed as such; however, type specimens not located at the present time are omitted.

This work was supported in part by the National Science Foundation grant no. GB-7197.

CATALOGUE OF TYPE AND REFERRED SPECIMENS

Acambona ? osagensis (Swallow, 1860)

Referred specimen: UC 12387.
Hall and Clarke, 1893, p. 120.
Hall and Clarke, 1895a, pl. 51, figs. 38, 39.

=*Eumetria ? osagensis* (Swallow, 1860)
Hall and Clarke, 1894, pl. 37, figs. 7, 9.

=*Eumetria osagensis* (Swallow, 1860)
S. Weller, 1914, p. 439, pl. 76, fig. 12.
Branson, 1938a, pp. 71, 72.

Mississippian, Chouteau Limestone.

Pike County, Missouri; Hall Collection.

Acrospirifer murchisoni (Castelnau, 1843)

See: *Spirifer murchisoni* Castelnau, 1843.

Acrothele subsidua (White, 1874)

Referred specimens: UC 11947, two specimens.
Hall and Clarke, 1892a, pp. 98–101, pl. 3, figs. 30, 31.

Cambrian.

Antelope Springs, Utah; Hall Collection from Walcott, 1884.

Allorhynchus macra (Hall, 1856)

Referred specimen: UC 2992.
S. Weller, 1914, pp. 199–201, pl. 25, figs. 5, 6.

Mississippian, Salem Limestone.

Stinesville, Indiana; Weller Collection.

Referred specimens: UC 13936, 12 specimens.
S. Weller, 1914, pp. 199–201, pl. 25, figs. 1–4.

Mississippian, Salem Limestone.

Hull's Hollow, above Alton, Illinois; Van Horne Collection.

Ambocoelia gregaria Hall, 1860

See: *Ambocoelia umbonata* var. *gregaria* Hall, 1860.

Ambocoelia minuta White, 1862

Referred specimens: UC 6719, 36 specimens.
S. Weller, 1914, pp. 423–424, pl. 77, figs. 44–47, 51–54.

Mississippian, Louisiana Limestone.

Louisiana, Missouri; Weller Collection.

Ambocoelia parva S. Weller, 1899

Holotype, not designated, to be selected from UC 5952.

Referred specimens: UC 5952, two pedicle valves.
S. Weller, 1899, pp. 20–21, pl. 4, figs. 1–4.
S. Weller, 1914, pp. 424–425, pl. 77, figs. 32–35.
Branson, 1938b, pp. 25–26.

=*Crurithyris parva* (S. Weller, 1899)
Carter, 1967, pp. 350–354.

Mississippian, Northview Sandstone.

S. Weller locality 1-A, Northview, Webster County, Missouri; collected by S. Weller, 1898.

Ambococelia planoconvexa (Shumard, 1855)

Referred specimens: UC 11964, two specimens.
Hall and Clarke, 1893, p. 56.
Hall and Clarke, 1894, pl. 31, figs. 14–16.
Hall and Clarke, 1895a, pl. 39, figs. 10–12, 14.

Pennsylvanian.

Springfield, Illinois; Hall Collection.

Referred specimens: UC 11965, two specimens.
Hall and Clarke, 1893, p. 56.
Hall and Clarke, 1894, pl. 31, fig. 17.
Hall and Clarke, 1895a, pl. 39, figs. 13, 15.

Pennsylvanian.

Manhattan, Kansas; Hall Collection.

Ambocoelia umbonata var. **gregaria** Hall, 1860

Referred specimens: UC 11756, many specimens in rock.
Hall, 1867, p. 261, pl. 44, figs. 24, 25.

= *Ambocoelia gregaria* Hall, 1860, museum catalogue.

Devonian, Chemung Formation.

Cherry Creek, Chautauqua County, New York; Hall Collection.

Remarks: UC 11756 includes the specimens originally used for the illustrations by Hall, 1867.

Ambocoelia unionensis S. Weller, 1914

Holotype, not designated, to be selected from UC 14782.

Referred specimens: UC 14782, five specimens.
S. Weller, 1914, pp. 425–426, pl. 77, figs. 36–43.

Mississippian, Kinderhook Group.

Three and one-half miles northwest of Jonesboro, Illinois; collected by S. Weller, 1907.

Amesopleura novamexicana (S. A. Miller, 1881)

See: *Spirifer piersonensis* Moore, 1928.
Spiriferina magnicostatus S. Weller, 1909.

Anastrophia primigenia Bradley, 1930

Holotype: original designation UC 10716A.
Bradley, 1930, pp. 228–229, pl. 23, figs. 9–11.

Referred specimen: UC 10716.
Bradley, 1930, pp. 228–229, pl. 23, fig. 12.

Ordovician, Polk Bayou Limestone.

S. Weller locality $2H^2$, O'Flynn Mine, Independence County, Arkansas; collected by S. Weller, 1896.

Anastrophia verneuili (Hall, 1857)

Referred specimen: UC 12437, a brachial valve.
Hall and Clarke, 1893, pp. 224–225.
Hall and Clarke, 1895a, pl. 63, fig. 37.

Devonian, Lower Helderberg Group.

Hall locality 756, "West Tennessee, Mohr Collection."

Published locality, Perry County, Tennessee; Hall Collection.

Referred specimen: UC 12438, a brachial valve.
Hall and Clarke, 1893, pp. 224–225.
Hall and Clarke, 1895a, pl. 63, fig. 38.

Devonian, Helderberg Group.

Hall locality 687, "between Clarksville, Knowersville and Schoharie, New York. All brachiopods gathered together and placed under this number. Feb. 19, 1889. Including specimens of *Rensellaeria* from Port Jervis."

Published locality, Helderberg Mountains, New York; Hall Collection.

Referred specimens: UC 21112, nine specimens.
Tansey *in* Branson, 1922, pp. 190–191, pl. 47, figs. 17–21, pl. 48, figs. 1–9.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Anoplia nucleata (Hall, 1857)

Referred specimen: UC 10470, a pedicle valve.
S. Weller, 1903, p. 349, pl. 46, figs. 9, 10.

Devonian, Oriskany Formation.

S. Weller, 1903, locality 6A, near Montigue P. O., New Jersey; New Jersey Collection.

Referred specimen: UC 27469, a pedicle valve.
Stewart *in* Branson, 1922, pp. 236–237, pl. 63, fig. 5.

Devonian, Upper Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Anoplotheca concava (Hall, 1857)

Referred specimen: UC 8522.
S. Weller, 1903, p. 316, pl. 37, figs. 11–14.

Devonian, Helderberg Group.

Schoharie, New York; Gurley Collection.

Remarks: *A. concava=Coelospira concava* (Hall, 1857)
Boucot et al. *in* Moore, 1965, p. 646.

Anoplotheca cf. **dichotoma** (Hall, 1859)

Referred specimens: UC 27485 (not UC 27484), four single valves.
Stewart *in* Branson, 1922, p. 251, pl. 66, figs. 22–25.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Anoplotheca flabellites (Conrad, 1841)

Referred specimens: UC 27486, two single valves.
Stewart *in* Branson, 1922, pp. 251–252, pl. 66, figs. 26, 27.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *A. flabellites* = *Leptocoelia flabellites* (Conrad, 1841) Boucot et al. *in* Moore, 1965, p. 648.

Anthracospirifer goreii (Mather, 1915)

See: *Spirifer goreii* Mather, 1915

Anthracospirifer matheri (Dunbar and Condra, 1932)

See: *Spirifer rockymontanus* Marcou, 1858

Antiquatonia morrowensis (Mather, 1915)

See: *Productus morrowensis* Mather, 1915

Athyris angelica Hall, 1861

Referred specimen: UC 12363.
Hall and Clarke, 1895a, pl. 45, fig. 30.

Devonian, Chemung Formation.

Belfast, New York; Hall Collection.

Athyris cestriensis Snider, 1915

Holotype, not designated, to be selected from UC 16210 and UC 16211.

Referred specimen: UC 16210.
Snider, 1915, pp. 96–97, pl. 5, figs. 19–21.

Easton, 1942, pl. 8, fig. 1.

Mississippian, Fayetteville Limestone.

Snider locality F4, Muskogee Quadrangle, Oklahoma; Snider, donor.

Referred specimen: UC 16211.
Snider, 1915, pp. 96–97, pl. 5, figs. 22–24.

Mississippian, Mayes Formation.

Snider locality M7, near Locust Grove, Pryor Quadrangle, Oklahoma; Snider, donor.

Athyris crassicardinalis (White, 1860)

Referred specimens: UC 6679, three specimens.
S. Weller, 1901, pp. 186–187, pl. 16, figs. 23, 24.
S. Weller, 1914, pp. 471–472, pl. 77, figs. 21–25.

Mississippian, Kinderhook, Bed no. 6.

Burlington, Iowa; S. Weller, donor.

Referred specimens: UC 9817, 11 single valves.
S. Weller, 1914, pp. 471–472, pl. 77, figs. 5–20.

Mississippian, Chouteau Limestone.

Sedalia, Missouri; Sampson Collection.

Athyris densa Hall and Clarke, 1894

Holotype, not designated, to be selected from UC 12364 and UC 12365.

Referred specimens: UC 12364, three specimens.
Hall and Clarke, 1894, pp. 651–652.
Hall and Clarke, 1895a, p. 364, pl. 46, figs. 6, 9, 10, 12.
Hall and Clarke, 1895b, pp. 358–359, pl. 9, figs. 3–5, 9.
Hall and Clarke, 1895c, pp. 358–359, pl. 9, figs. 3–5, 9.
Beede, 1906, p. 1320, pl. 19, figs. 2a, 2b.
S. Weller, 1914, pp. 469–471, pl. 77, figs. 60–67.

Mississippian, Salem Limestone.

Colesburgh, Kentucky; Hall Collection.

Referred specimens: UC 12365, three specimens.
Hall and Clarke, 1894, pp. 651–652.
Hall and Clarke, 1895a, p. 364, pl. 46, figs. 7, 8, 11.
Hall and Clarke, 1895b, pp. 358–359, pl. 9, figs. 6–8.
Hall and Clarke, 1895c, pp. 358–359, pl. 9, figs. 6–8.
Beede, 1906, p. 1320, pl. 19, figs. 2, 2c.

Mississippian, Salem Limestone.

Hall locality 375, "St. Louis Group of Lanesville, Indiana (G. K. Greene) Nov. 1888"; Hall Collection.

Athyris hannibalensis (Swallow, 1860)

Referred specimens: UC 6690, six specimens.
S. Weller, 1914, pp. 467–468, pl. 78, figs. 10–14.

Mississippian, Louisiana Limestone.

Louisiana, Missouri; Gurley Collection.

Referred specimen: UC 12366, a pedicle valve.
Hall and Clarke, 1893, p. 90.
Hall and Clarke, 1895a, pl. 46, figs. 14, 15.

Mississippian, Louisiana Limestone.

Louisiana, Missouri; Hall Collection.

Athyris incrassata Hall, 1858

Referred specimen: UC 12473, a pedicle valve.
Hall and Clarke, 1893, p. 90.
Hall and Clarke, 1895a, pl. 83, fig. 39.

=*Cleiothyris incrassata* (Hall, 1858)
S. Weller, 1909, pp. 313–314.

=*Cliothyridina obmaxima* (McChesney, 1860)
S. Weller, 1914, pp. 475–476.

Mississippian, Warsaw Limestone.

Des Moines River, Iowa; Hall Collection.

Athyris lamellosa (L'Eveillé, 1835)

Referred specimen: UC 4476, a pedicle valve
S. Weller, 1899, p. 21, pl. 4, fig. 8.

Mississippian, Northview Sandstone.

S. Weller, 1899, locality 1A, Northview, Missouri; collected by S. Weller, 1896.

Referred specimen: UC 7593.
S. Weller, 1914, pp. 465–467, pl. 78, fig. 5.

Referred specimen: UC 7599.
S. Weller, 1914, pp. 465–467, pl. 78, figs. 3, 4.

Mississippian, Burlington Limestone.

Louisiana, Missouri; Gurley Collection.

Referred specimen: UC 7605.
S. Weller, 1914, pp. 465–467, pl. 78, fig. 1.

Mississippian, Keokuk Limestone.

Warsaw, Illinois; Gurley Collection.

Referred specimens: UC 8545, 11 specimens.
S. Weller, 1914, pp. 465–467, pl. 78, figs. 17–20.

Mississippian, Pierson Limestone.

New Springfield, Missouri; S. Weller Collection.

Referred specimens: UC 13539, two specimens.
S. Weller, 1909, p. 312, pl. 14, figs. 5, 6.
S. Weller, 1914, pp. 465–467, pl. 78, figs. 15, 16.

Mississippian, Fern Glen Formation.

Fern Glen, Missouri; collected by S. Weller, 1908.

Referred specimen: UC 14224.
S. Weller, 1914, pp. 465–467, pl. 78, fig. 2.

Mississippian, Burlington Chert.

Cooper County, Missouri; Sampson Collection.

Athyris spiriferoides (Eaton, 1831)

Referred specimens: UC 12362, two brachial valves.
Hall and Clarke, 1893, p. 89.
Hall and Clarke, 1894, pl. 35, fig. 4.
Hall and Clarke, 1895a, pl. 45, figs. 14, 15, 17.

Devonian, Hamilton Group (published).

Hall locality a/290, "a collection of Brachiopoda rec. [received] in exchange for books. Jan. 1889. V. L. [Victor Lyon]."

Published localities, figs. 14, 15, Clarke County, Indiana; fig. 17, Falls of the Ohio; Hall Collection.

Athyris (Cleiothyris?) sp.

Referred specimens: UC 4477, three specimens.
S. Weller, 1899, pp. 21–22, pl. 4, fig. 11.

=*Cliothyridina*? sp., museum catalogue

Mississippian, Northview Sandstone.

S. Weller, 1899, locality 1A, Northview, Missouri; collected by S. Weller, 1896.

Atribonium bisinuatum (Rowley, 1900)

See: *Camarophoria bisinuata* (Rowley, 1900)

Atrypa congesta Conrad, 1842

Referred specimen: UC 11966.

Hall, 1852, pp. 67–68, pl. 23, figs. 1e, 1h, 1i.

= *Hyattella congesta* (Conrad, 1842)

Hall and Clarke, 1893, pp. 61–62.

Hall and Clarke, 1895a, pl. 40, fig. 25.

Grabau, 1901, pp. 204–205, text figs. 131, 131a [first, fourth and fifth figs.].

Grabau and Shimer, 1909, p. 348, text fig. 452 [first, fourth and fifth figs.].

= *Hyattidina congesta* (Conrad, 1842)

Bassler, 1915, p. 653.

Silurian, Niagara Group, Clinton Formation.

Lockport, New York; Hall Collection.

Atrypa devoniana form **alta** C. L. Fenton, 1918

See: *Atrypa reticularis alta* C. L. Fenton, 1918.

Atrypa independencis [sic] Webster, 1921

Referred specimen: UC 25994.

Fenton and Fenton, 1935, pp. 377–379, pl. 42, fig. 14.

Devonian, Lower Cedar Valley, *Spirifer pennatus* Zone.

Independence, Iowa; Fenton Collection.

Atrypa independensis Webster, 1921

Referred specimen: UC 25998.

Webster, 1921, p. 15.

Devonian, *Spirifer pennatus* Zone.

Independence, Iowa; Fenton Collection.

Atrypa infrequens S. Weller, 1914

Holotype: UC 11348.

See: *Atrypa spinosa* Hall, 1843.

Atrypa lamellata (Hall, 1852)

Referred specimens: UC 10409, two specimens.

S. Weller, 1903, p. 237, pl. 21, figs. 23–29.

=*Camarotoechia lamellata* (Hall, 1852)

Bassler, 1915, p. 176.

Silurian, Decker Ferry.

S. Weller, 1903, locality 2A[12], William Nearpass Quarry, two miles south of Tri-States, New York; New Jersey Collection.

Atrypa lineata Webster, 1921

Referred specimen: UC 25877.
Fenton and Fenton, 1932, p. 207, fig. 2B.

Devonian, Upper Cedar Valley, Bloody Run Zone.

Bloody Run, near Charles City, Iowa; Fenton Collection.

Atrypa marginalis (Dalman, 1828)

Referred specimens: UC 32945, seven specimens.
Fisher, 1925, pp. 24–25, pl. 4, fig. 9.

Silurian, Edgewood.

Joliet, Illinois; S. Weller Collection.

Atrypa reticularis (Linné, 1767)

Referred specimens: UC 21072, eight specimens.
Tansey *in* Branson, 1922, p. 198, pl. 50, figs. 30, 33–40.

Referred specimens: UC 21073, four specimens.
Tansey *in* Branson, 1922, p. 198, pl. 50, figs. 31, 32.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Referred specimens: UC 27502, two single valves.
Stewart *in* Branson, 1922, p. 245, pl. 65, fig. 2.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Atrypa reticularis alta C. L. Fenton, 1918

=*Atrypa devoniana* form *alta* C. L. Fenton, 1918
Fenton and Fenton, 1924, pp. 136–137, pl. 26, figs. 25, 26.

Holotype: original designation UC 26065.
C. L. Fenton, 1918, p. 216, pl. 6, figs. 1, 2.

Devonian, Hackberry Stage, *Spirifer* Zone.

Hackberry Grove, Cerro Gordo County, Iowa; Fenton Collection.

Referred specimen: UC 25992.
C. L. Fenton, 1918, p. 216.

Referred specimens: UC 26001, two specimens.
C. L. Fenton, 1918, p. 216.

Devonian, Cedar Valley, St. Charles Zone (published); Bloody Run Zone, *Atrypa* Faunule (catalogue).

Kelly Quarry, Charles City, Iowa; Fenton Collection.

Referred specimen: UC 54001.
C. L. Fenton, 1918, p. 216.

Referred specimen: UC 54002.
C. L. Fenton, 1918, p. 216.

Devonian, Hackberry Stage, Lower *Spirifer* Zone.

R. B. and T. Co. Pit, Rockford, Iowa; Fenton Collection.

Remarks: *A. reticularis alta* = *Desquamatia* (*Iowatrypa*) *devoniana* (Webster) P. Cooper, 1969, *personal communication*, ssp. *alta* appears to be merely a gerontic version of the topotypic form *devoniana*.

Atrypa spinosa Hall, 1843

Referred specimen: UC 11348.
S. Weller, 1906, pp. 443–444, pl. 6, fig. 17.

= Holotype of *Atrypa infrequens* S. Weller, 1914.
S. Weller, 1914, pp. 285–286, pl. 35, figs. 1–5.

Mississippian, Glen Park Limestone.

S. Weller, 1906, locality 11, Glen Park, Missouri; collected by S. Weller, 1904.

Referred specimens: UC 23871, 15 specimens.
Branson, 1922, pp. 98–99, pl. 34, fig. 14.

Devonian, Grand Tower Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Atrypa trowbridgei Fenton and Fenton, 1930

Holotype: original designation UC 26097.
Fenton and Fenton, 1930, pp. 14–15, pl. 2, figs. 1, 2.
Fenton and Fenton, 1935, pp. 376–377.

Referred specimens: UC 26098; UC 26099.

Fenton and Fenton, 1930, pp. 14–15.
Fenton and Fenton, 1935, pp. 376–377.
Devonian, Cedar Valley.
Linn Junction, Iowa; Fenton Collection.

Atrypa waterlooensis Webster, 1921 (Form B)
Referred specimen: UC 26085 (not U. S. Nat. Mus. no. 84709).
Fenton and Fenton, 1935, pp. 370–373, pl. 37, fig. 11.
Devonian, Cedar Valley.
Waterloo, Iowa; Fenton Collection.

Atrypina imbricata (Hall, 1859)
Referred specimen: UC 902.
S. Weller, 1903, p. 312, pl. 37, figs. 17–20.
Devonian, Helderberg Group.
Helderberg Mountains, New York; James Collection.

Referred specimen: UC 8520.
S. Weller, 1903, p. 312, pl. 37, fig. 22.
Devonian, Helderberg Group
Schoharie, New York; Gurley Collection.

Referred specimen: UC 21109.
Tansey *in* Branson, 1922, pp. 197–198, pl. 50, figs. 27–29.
Devonian, Bailey Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Atrypina magnaventra Grubbs, 1939
Holotype: original designation UC 46054.
Grubbs, 1939, pp. 557–558, pl. 62, fig. 21.

Referred specimens: UC 46055, six specimens.
Grubbs, 1939, pp. 557–558, pl. 62, figs. 22–25.
Silurian, Niagaran Dolomite.
Federal Stone Quarry, near Chicago, Illinois; Grubbs Collection.

Austinella cooperi Roy, 1941
Referred specimen: P 28261.
Roy, 1941, pp. 88–90, text figs. 52e, 52f.

Ordovician, Richmond.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; Roy Collection.

Remarks: Holotype U. S. Nat. Mus. no. 28150.

Austinella scovillei (S. A. Miller, 1882)

= *Plectorthis* (*Austinella*) *scovillei* (S. A. Miller, 1882) Bassler, 1915, p. 1002.

Referred specimen: UC 105, a pedicle valve.
Foerste, 1912, pp. 130–131, pl. 8, fig. 8A.

Ordovician, Cincinnatian Series, Waynesville Group, Blanchester Division.

Near Blanchester, Ohio; James Collection.

Referred specimen: UC 106, a pedicle valve.
Foerste, 1912, pp. 130–131, pl. 8, fig. 8C.

Referred specimen: UC 107, a pedicle valve.
Foerste, 1912, pp. 130–131, pl. 8, fig. 8B.

Ordovician, Cincinnatian Series, Waynesville Group, Blanchester Division.

Oregonia, Ohio; James Collection.

Austinella whitfieldi (Winchell, 1881)

See: *Orthis whitfieldi* Winchell, 1881.

Avonia blairi (S. A. Miller, 1891)

See: *Productus blairi* S. A. Miller, 1891.

Avonia concentrica (Hall, 1857)

See: *Productella concentrica* (Hall, 1857).

Avonia laevicula (Moore, 1928)

See: *Pustula laevicula* Moore, 1928.

Avonia newarkensis (Moore, 1928)

See: *Pustula newarkensis* Moore, 1928.

Avonia oklahomensis Snider, 1915

Holotype, not designated, to be selected from UC 16200.

Referred specimens: UC 16200, two specimens.
Snider, 1915, pp. 83–84, pl. 4, figs. 4–11.

=*Semicostella oklahomensis* (Snider, 1915)
Muir-Wood and Cooper, 1960, pp. 195–196.

Mississippian, Mayes Formation.

Snider, 1915, locality M4, Muskogee Quadrangle, Oklahoma; Snider, donor.

Avonia pustulifera Moore, 1928

Holotype, not designated, to be selected from UC 9849 and UC 32113.

Referred specimen: UC 9849.
Moore, 1928, pp. 271–272, pl. 11, figs. 17, 20, 21.
Sutton, 1938, p. 565.

Mississippian, Chouteau Limestone [label and plates]; Sedalia Limestone [text].

Pettis County, Missouri; Sampson Collection.

Referred specimens: UC 32113, two pedicle valves.
Moore, 1928, pp. 271–272, pl. 11, figs. 7, 11, 12, 16.
Branson, 1938a, pp. 39–40, pl. 2, figs. 4–6.
Sutton, 1938, p. 565, pl. 62, figs. 12–15.

Mississippian, Osceola White Chert.

Osceola, Missouri; Moore Collection.

Barrandella barrandii (Billings, 1857)

Referred specimen: UC 12454.
Hall and Clarke, 1893, pp. 243–244.
Hall and Clarke, 1895a, pl. 71, figs. 19, 20.

=*Virgiana barrandei* (Billings, 1857)
Twenhofel, 1914, pp. 27–28.

=*Clorinda barrandii* (Billings, 1857) Museum catalogue

Silurian, Anticosti Group.

Hall locality 182, "Anticosti (Island of) Herzer Collection. Others same no. from Col. E. C. Grant of Hamilton, Ontario."

Published locality, Becscie River, Anticosti Island; Hall Collection.

Barrandella ventricosa (Hall, 1860)

Referred specimen: UC 12453.
Hall and Clarke, 1893, p. 243.
Hall and Clarke, 1895a, pl. 71, figs. 8–10.

=*Clorinda ventricosa* (Hall, 1860)
Schuchert, 1897, p. 185.

Silurian, Niagaran Dolomite.

Near Milwaukee, Wisconsin; Hall Collection.

Barroisella campbelli Cooper, 1942

See: *Lingula subspatulata* Meek and Worthen, 1868.

Barroisella subspatulata (Meek and Worthen, 1868)

See: *Lingula subspatulata* Meek and Worthen, 1868.

Beachia suessana (Hall, 1857)

Referred specimens: UC 12465, two brachial valves.
Hall and Clarke, 1893, p. 260.
Hall and Clarke, 1894, pp. 850–851, pl. 51, fig. 5.
Hall and Clarke, 1895a, pl. 77, figs. 10, 11.

Devonian, Oriskany Sandstone.

Hall locality 250, "Cumberland, Maryland"; Hall Collection.

Referred specimens: UC 27504, two specimens.
Stewart *in* Branson, 1922, p. 244, pl. 64, figs. 16, 17.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Beecheria chouteauensis (S. Weller, 1914)

See: *Dielasma chouteauensis* S. Weller, 1914.
Dielasma formosa (Hall, 1856), UC 12237.

Beecheria davidsoni Hall and Clarke, 1894

Holotype, not designated, to be selected from UC 12223, UC12224, UC 12225.

Referred specimen: UC 12223.
Hall and Clarke, 1893, p. 300, pl. 79, fig. 35.
Hall and Clarke, 1895b, p. 372, pl. 14, fig. 9.
Hall and Clarke, 1895c, p. 372, pl. 14, fig. 9.

Referred specimen: UC 12224, a pedicle valve.
Hall and Clarke, 1893, p. 300, pl. 79, fig. 36.
Hall and Clarke, 1894, p. 866, pl. 53, fig. 1.
Hall and Clarke, 1895b, p. 372, pl. 14, fig. 7.
Hall and Clarke, 1895c, p. 372, pl. 14, fig. 7.

Referred specimen: UC 12225, a brachial valve.
Hall and Clarke, 1893, p. 300, text fig. 224.
Hall and Clarke, 1894, p. 866, text fig. 507.
Hall and Clarke, 1895b, p. 372, pl. 14, fig. 8.
Hall and Clarke, 1895c, p. 372, pl. 14, fig. 8.

"Carboniferous Limestone."

Hall locality 475, "a box of limestone from the Mohr Collection mainly brachiopods. From Windsor, Nova Scotia"; Hall Collection.

Beecheria osceolensis (S. Weller, 1914)

See: *Dielasma osceolensis* S. Weller, 1914.

Billingsella billingsi (Hartt, 1868)

See: *Protorthis billingsi* (Hartt, 1868).

Billingsella coloradoensis (Shumard, 1860)

See: *Orthis pepina* Hall, 1863.

Billingsella? laurentina (Billings, 1857)

Referred specimen: UC 11920.
Hall and Clarke, 1892a, pp. 194, 231, 238, pl. 7A, figs. 1, 2.

=*Orthis laurentina* (Billings, 1857)
Bassler, 1915, p. 893.

Silurian, Anticosti Group.

Anticosti Island, Hall Collection.

Billingsella pepina (Hall, 1863)

See: *Orthis pepina* Hall, 1863.

Bilobites biloba (Linné, 1767)

Referred specimens: UC 11913, three specimens.
Hall and Clarke, 1892a, pp. 190, 204–205, 223, pl. 5B, figs. 11–14.
Cooper *in* Shimer and Shrock, 1944, p. 355, pl. 138, figs. 50, 51.

Silurian, Niagaran.

Lockport, New York; Hall Collection.

Remarks: *B. biloba* = *Dicoelosia biloba* (Linné, 1767). Wright *in* Moore, 1965, p. 336.

Bilobites varica (Conrad, 1842)

Referred specimen: UC 806.
S. Weller, 1903, pp. 306–307, pl. 35, figs. 14–17.

Devonian, Helderberg Group.

Helderberg Mountains, New York; James Collection.

Referred specimens: UC 21063, four specimens.
Tansey *in* Branson, 1922, pp. 185–186, pl. 46, figs. 18–25.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *Bilobites* Quenstadt, 1869 = *Dicoelosia* King, 1850. Wright *in* Moore, 1965, p. 336.

Botsfordia pulcher (Matthew, 1889)

See: *Obolus pulcher* Matthew, 1889.

Brachyprion cf. **majus** Clarke, 1900

Referred specimens: UC 27472, two specimens.
Stewart *in* Branson, 1922, pp. 235–236, pl. 62, figs. 6, 7.

Devonian, Little Saline Limestone, lower beds.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Brachyprion sp.

Referred specimens: UC 27471, three single valves.
Stewart *in* Branson, 1922, p. 236, pl. 62, figs. 8–10.

Remarks: *Brachyprion* Shaler, 1865 = *Strophodonta* (*Brachyprion*) Shaler, 1865

Williams *in* Moore, 1965, p. 395.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Brachyspirifer audaculus (Conrad, 1842)

Referred specimens: P 1079, four specimens.

Garrels, 1951, p. 486, fig. A-III.5.
Devonian, Moscow Shale.
Moscow, New York; purchased from Wards, 1895.
See also: *Spirifer audaculus* (Conrad, 1842).

Brachythyris altonensis S. Weller, 1914
Holotype, not designated, to be selected from UC 10925.

Referred specimens: UC 10925, two specimens.
S. Weller, 1914, pp. 379–380, pl. 59, figs. 7–14.
Mississippian, St. Louis Limestone.
Bluffs one mile above Alton, Illinois; Van Horne Collection.

Brachythyris burlingtonensis S. Weller, 1914
Holotype, not designated, to be selected from UC 7501 and UC 13543.

Referred specimen: UC 7501.
S. Weller, 1914, pp. 371–372, pl. 83, fig. 6.
Mississippian, Kinerhook Bed no. 5.
Burlington, Iowa; Gurley Collection.

Referred specimens: UC 13543, four specimens.
S. Weller, 1914, pp. 371–372, pl. 53, figs. 8, 9.
Mississippian, Kinderhook Bed no. 5.
Burlington, Iowa; S. Weller Collection.

Brachythyris chouteauensis (S. Weller, 1909)
Holotype: original designation UC 9664.
S. Weller, 1914, pp. 373–374, pl. 57, figs. 8–10.
Carter, 1967, pp. 394, 396.
Mississippian, Chouteau Limestone.
Chouteau Springs, Missouri; Sampson Collection.

Referred specimen: UC 8544.
S. Weller, 1914, pp. 373–374, pl. 57, figs. 4–7.
Carter, 1967, p. 394.
Mississippian, Pierson Limestone.
Near Springfield, Missouri; S. Weller Collection.
See also: *Spirifer chouteauensis* S. Weller, 1909.

Brachythyris fernglenensis (S. Weller, 1909)

"Cotypes": UC 13538.

See: *Spirifer fernglenensis* S. Weller, 1909.

Brachythyris gurleyi S. Weller, 1914

Holotype: original designation UC 7550.
S. Weller, 1914, pp. 377–378, pl. 58, figs. 4–8.

Mississippian, Salem Limestone.

Indiana; Gurley Collection.

Brachythyris ozarkensis Snider, 1915

Referred specimens: UC 16971, seven specimens.
Snider, 1915, pp. 90–91.

Mississippian, Fayetteville Limestone.

Snider, 1915 locality F14, near Adair, Oklahoma; Snider, donor.

Referred specimen: UC 16972.
Snider, 1915, pp. 90–91.

Mississippian, Mayes Formation.

Snider, 1915 locality M7, near Locust Grove, Oklahoma; Snider, donor.

Brachythyris peculiaris (Shumard, 1855)

Referred specimen: UC 7941.
S. Weller, 1914, pp. 381–382, pl. 58, figs. 17–20.

Mississippian, Chouteau Limestone.

Pettis County, Missouri; Broadhead Collection.

Referred specimens: UC 9662, eight specimens.
S. Weller, 1914, pp. 381–382, pl. 58, figs. 9–16.

Mississippian, Chouteau Limestone.

Chouteau Springs, Missouri; Sampson Collection.

Referred specimen: UC 9722, a single valve.
S. Weller, 1914, pp. 381–382, pl. 57, fig. 12.

Mississippian, Chouteau Limestone.

Pettis County, Missouri; Sampson Collection.

Referred specimen: UC 14780.
S. Weller, 1914, pp. 381–382, pl. 83, figs. 3–5.

Mississippian, Chouteau Limestone.

Dogtown Creek, Calhoun County, Illinois; collected by Univ. Chicago, Calhoun County Expedition, 1906.

Brachythyris semiplicata (Hall, 1860)

Referred specimen: UC 14776.
S. Weller, 1914, pp. 380–381, pl. 59, figs. 15–19.

Mississippian, Kinderhook.

Three and one-half miles northwest of Jonesboro, Illinois; collected by S. Weller, 1907

Brachythyris subcardiiformis (Hall, 1858)

Referred specimens: UC 7520, four specimens.
S. Weller, 1914, pp. 376–377, pl. 60, figs. 13–15.

Mississippian, Salem Limestone.

Spergen Hill, Indiana; Gurley Collection.

Referred specimen: UC 8617.
S. Weller, 1914, pp. 376–377, pl. 60, figs. 4–6.

Mississippian, Salem Limestone.

Edwardsville, Indiana; Gurley Collection.

See also: *Spirifer subcardiiformis* Hall, 1858.

Brachythyris suborbicularis (Hall, 1858)

Referred specimen: UC 385, a brachial valve.
S. Weller, 1914, pp. 374–376, pl. 61, fig. 5.

Mississippian, Burlington Limestone.

Springfield, Missouri; S. Weller Collection.

Referred specimens: UC 4721, two specimens.
S. Weller, 1914, pp. 374–376, pl. 62, figs. 1–5.

Mississippian, Burlington Limestone.

S. Weller, 1914, locality $3A^{10-12}$ Sulphur Springs, Missouri; collected by S. Weller, 1896.

Referred specimens: UC 5652, three specimens.
S. Weller, 1914, pp. 374–376, pl. 62, figs. 6–10.

Mississippian, Residual Chert.

Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 5655.

S. Weller, 1914, pp. 374–376, pl. 61, fig. 6.

Mississippian, Burlington Limestone.

S. Weller, 1914, locality B3, Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 8627.
S. Weller, 1914, pp. 374–376, pl. 61, fig. 4.

Mississippian, Keokuk Limestone.

Keokuk, Iowa.

Referred specimens: UC 13324, three specimens.
S. Weller, 1914, pp. 374–376, pl. 61, fig. 8; pl. 62, fig. 11.

Mississippian, Keokuk Limestone.

Hall locality 751, "Crawfordsville, Indiana. Mohr Collection entered May 10, 1884." Hall Collection.

Referred specimens: UC 13325, three specimens.
S. Weller, 1914, pp. 374–376, pl. 61, fig. 7; pl. 62, fig. 12.

Mississippian, Keokuk Limestone.

Hall locality 378, "Offield Creek, Indiana, 6 mi. southwest of Crawfordsville, Indiana (Collection of C. S. Beachler, Dec. 1888)"; Hall Collection.

Referred specimen: UC 13409, a pedicle valve.
S. Weller, 1914, pp. 374–376, pl. 61, fig. 3.

Mississippian, Keokuk Limestone.

Keokuk, Iowa; Hall Collection.

Buxtonia arkansana (Girty, 1910)

Referred specimens: UC 16888, three specimens.
Easton, 1942, pl. 5, figs. 1, 2.

Mississippian, Pitkin Formation.

Southeast of Fort Gibson, Oklahoma; Snider, donor.

See also: *Productus abruptus* Sutton and Wagner, 1931.

Buxtonia newtonensis (Moore, 1928)

See: *Productus newtonensis* Moore, 1928.

Buxtonia setigera (Hall, 1858)

See: *Productus setigerus* Hall, 1858.

Buxtonia viminalis (White, 1862)
See: *Productus viminalis* White, 1862.

Callipleura nobilis (Hall, 1860)
See: *Cyclorhina nobilis* (Hall, 1860).

Camarella bella C. L. Fenton, 1928
= *Rhynchocamara bella* (C. L. Fenton, 1928)
Schuchert and Cooper, 1932, p. 189.
Holotype: original designation UC 33409, a pedicle valve.
C. L. Fenton, 1928a, pp. 136–137, pl. 3, figs. 1–4.
Referred specimen: UC 33410, a pedicle valve.
C. L. Fenton, 1928a, pp. 136–137, pl. 3, figs. 5, 6.
Referred specimen: UC 33411, a pedicle valve.
C. L. Fenton, 1928a, pp. 136–137, pl. 3, fig. 7.
Referred specimen: UC 33412, a brachial valve.
C. L. Fenton, 1928a, pp. 136–137, pl. 3, figs. 8, 12.
Referred specimen: UC 33413, a brachial valve.
C. L. Fenton, 1928a, pp. 136–137, pl. 3, figs. 10, 11.
Referred specimen: UC 33414, a brachial valve.
C. L. Fenton, 1928a, pp. 136–137, pl. 3, fig. 9.
Ordovician, Lower Middle Plattin Formation.
Ste. Genevieve County, Missouri; collected by S. Weller.
Remarks: *Rhynchocamara* Schuchert and Cooper, 1931 = *Camerella* Billings, 1859.
Biernat *in* Moore, 1965, p. 535.

Camarella inornata S. Weller, 1903
Holotype, not designated, to be selected from UC 10232.
Referred specimens: UC 10232, two specimens.
S. Weller, 1903, pp. 157–158, pl. 10, figs. 8–10.
= ? *Cyclospira inornata* (S. Weller, 1903)
Schuchert and Cooper, 1932, p. 168.
Ordovician, Trenton Limestone.
S. Weller, 1903 locality 192A, Hainesburg, New Jersey; New Jersey Collection.

Remarks: The specimen originally figured is missing; its plaster cast remains.

Camarophorella lenticularis (White and Whitfield, 1862)

Referred specimens: UC 12433, three specimens.
Hall and Clarke, 1893, p. 215.
Hall and Clarke, 1894, p. 838, pl. 45, figs. 5, 6.
Hall and Clarke, 1895a, pl. 62, figs. 46–48.
Mississippian, Kinderhook, Yellow Sandstone.
Burlington, Iowa; Hall Collection.

Camarophoria bisinuata (Rowley, 1900)

Referred specimens: UC 9108, four specimens.
S. Weller, 1914, pp. 172–173, pl. 23, figs. 20–29.
Mississippian, Burlington, Residuary Chert.
Springfield, Missouri.

Referred specimen: UC 13929.
S. Weller, 1914, pp. 172–173, pl. 23, figs. 42–45.
Mississippian, Keokuk Limestone.
Warsaw, Illinois; Gurley Collection.
Remarks: *C. bisinuata* = *Atribonium bisinuatum* (Rowley, 1900)
Grant, 1965, p. 40.

Camarophoria cestriensis Snider, 1915

"Lectotype": designated by Grant, 1965, p. 106, UC 16203A.
Snider, 1915, pp. 85–86, pl. 4, figs. 15–18.
=*Coledium cestriensis* (Snider, 1915)
Grant, 1965, pp. 105–109.

Referred specimens: UC 16203, two specimens.
Snider, 1915, pp. 85–86, pl. 4, figs. 19–26.
=*Coledium cestriensis* (Snider, 1915)
Grant, 1965, pp. 105–109.
Mississippian, Pitkin Formation.
Melvin, Muskogee Quadrangle, Oklahoma; Snider, donor.

Camarophoria explanata (McChesney, 1860)

Holotype: UC 12424.
See: *Rhynchonella explanata* McChesney, 1860, in catalogue of casts.

Referred specimens: UC 7726, 13 specimens.
S. Weller, 1910, pp. 501–503, text fig. 3a–k.
S. Weller, 1914, pp. 173–175, text fig. 4a–k, pl. 23, figs. 48–51.
=*Stenoscisma explanata* (McChesney, 1860)
Cooper *in* Shimer and Shrock, 1944, p. 315, pl. 120, figs. 43–45.
=*Coledium explanatum* (McChesney, 1860)
Grant, 1965, pp. 114–119, text fig. 27a–i.
Mississippian, Kaskaskia Group.
Chester, Illinois: Gurley Collection.

Referred specimens: UC 25407, two specimens.
S. Weller, 1920, p. 360, pl. 9, figs. 35, 36.
Mississippian, Golconda Limestone.
S. Weller, 1920 locality W17-4, 2½ miles northwest of Elizabethtown, Illinois; collected by S. Weller, 1917.
Remarks: *Camarophoria* King, 1844 =*Stenoscisma* Conrad, 1839
Cooper *in* Shimer and Shrock, 1944, p. 315.
C. explanata =*Coledium explanatum* (McChesney, 1860)
Grant, 1965, pp. 114–119.

Camarophoria hamburgensis S. Weller, 1910
"Lectotype": designated by Grant, 1965, p. 74, UC 13937A, a brachial valve.
S. Weller, 1910, pp. 500–501.
S. Weller, 1914, pp. 170–172, pl. 23, fig. 57.
=*Sedenticellula hamburgensis* (S. Weller, 1910)
Cooper, 1942, p. 231.
Grant, 1965, pp. 73–75.

Referred specimens: UC 13937, 21 specimens.
S. Weller, 1910, pp. 500–501.
S. Weller, 1914, pp. 170–172, pl. 23, figs. 52–56, 58–60.
=*Sedenticellula hamburgensis* (S. Weller, 1910)
Cooper, 1942, p. 231.
Grant, 1965, pp. 73–75.
Mississippian, Kinderhook Group, Hamburg Oolite.
Hamburg, Illinois; Gurley Collection.

Camarophoria subcuneata (Hall, 1856)
Referred specimens: UC 12430, two specimens.

Hall and Clarke, 1893, p. 214.
Hall and Clarke, 1894, pl. 45, fig. 3.
Hall and Clarke, 1895a, pl. 62, figs. 34, 37.

=*Tetracamera subcuneata* (Hall, 1856)
S. Weller, 1910, pp. 503–504.
S. Weller, 1914, pp. 214–215.

Mississippian, St. Louis Group (published); Salem Limestone (catalogue).

Hall locality 362, "Washington County, Indiana, Herzer Collection"; Hall Collection.

Camarophoria subtrigona (Meek and Worthen, 1860)

Referred specimens: UC 12431, two specimens in four pieces.
Hall and Clarke, 1893, p. 215.
Hall and Clarke, 1894, pl. 45, figs. 1, 2.
Hall and Clarke, 1895a, pl. 62, figs. 38–41.

=*Tetracamera subtrigona* (Meek and Worthen, 1860)
S. Weller, 1910, pp. 504–505.
S. Weller, 1914, pp. 218–221.

Mississippian, Residuary Chert.

Hall locality 772, "see 421 Mohr Collection. Carboniferous cherty beds considered as the equivalent of the St. Louis beds. Some from Alabama."

Hall locality 421, "Mohr Collection, some locality in Indiana. Bryozoa slabs."

Published locality, Springfield, Missouri; Hall Collection.

Referred specimen: UC 12432 has been broken since it was illustrated.
Hall and Clarke, 1893, p. 215.
Hall and Clarke, 1895a, pl. 62, fig. 42.

=*Tetracamera subtrigona* (Meek and Worthen, 1860)
S. Weller, 1910, pp. 504–505.
S. Weller, 1914, pp. 218–221.

Mississippian, Residuary Chert (Burlington).

Hall locality 394, "Pike County, Missouri. Sent by Rowley"; Hall Collection.

Remarks: *C. subtrigona* = *Rotaia subtrigona* (Meek and Worthen, 1860).
McLaren *in* Moore, 1965, pp. 588–589.

Camarospira fabulites (Rowley, 1900)

See: *Rowleyella fabulites* (Rowley, 1900).

Camarotoechia aequiradiata (Hall, 1852)

Referred specimens: UC 12398, a brachial and a pedicle valve.
Hall and Clarke, 1893, p. 190.
Bassler, 1915, p. 174.

= *Protorhyncha aequiradiata* (Hall, 1852)
Hall and Clarke, 1895a, pl. 56, figs. 7–9.

Silurian, Niagara Group, Clinton Formation.

Hall locality 163, "New Hartford, New York. Jewett Collection of duplicates." Hall Collection.

Camarotoechia bipartia Ball and Dunn, 1931

Holotype: original designation UC 52022 (not UC 22343).
Ball and Dunn, 1931, pp. 384–385, pl. 1, figs. 6–10.

Referred specimens: UC 53086 (not UC 22344), seven specimens.
Ball and Dunn, 1931, pp. 384–385.

Silurian, Bainbridge Limestone.

South slope of Greither Hills, 2½ miles southeast of Ozora, Missouri.

Camarotoechia chouteauensis S. Weller, 1914

Holotype, not designated, to be selected from UC 6709 and UC 9704.

Referred specimens: UC 9704, 15 specimens.
S. Weller, 1914, pp. 176–177, pl. 24, figs. 34–37.

Mississippian, Chouteau Limestone.

Sedalia, Missouri; Sampson Collection.

Referred specimen: UC 6709.
S. Weller, 1914, pp. 176–177, pl. 24, figs. 38–40.

Mississippian, Chouteau Limestone.

Chouteau Springs, Missouri; Gurley Collection.

Camarotoechia diversa Ball and Dunn, 1931

Holotype: original designation UC 52019 (not UC 22349).
Ball and Dunn, 1931, pp. 388–389, pl. 1, figs. 26–30.

Referred specimens: UC 52020 (not UC 22350), seven specimens. Ball and Dunn, 1931, pp. 388–390.

Silurian, Bainbridge Limestone.

South slopes of Greither Hills, 2½ miles southeast of Ozora, Missouri.

Camarotoechia extans Ball and Dunn, 1931

Holotype: original designation UC 52018 (not UC 22306). Ball and Dunn, 1931, pp. 383–384, pl. 1, figs. 11–15.

Referred specimens: UC 53087 (not UC 22307), five specimens. Ball and Dunn, 1931, pp. 383–384.

Silurian, Bainbridge Limestone.

South slopes of Greither Hills, 2½ miles southeast of Ozora, Missouri.

Camarotoechia grosvenori (Hall, 1856)

Referred specimens: UC 13935, three specimens. S. Weller, 1914, pp. 183–185, pl. 24, figs. 65–72.

Mississippian, Salem Limestone.

Bloomington, Indiana; Siebenthal, donor.

See also: *Wilsonia grosvenori* (Hall, 1856).

Camarotoechia indianoidea Ball, 1931

Holotype: original designation UC 52017A (not UC 22302). Ball and Dunn, 1931, pp. 381–383, pl. 1, figs. 1–5.

Referred specimens: UC 52017 (not UC 22302), two specimens. Ball and Dunn, 1931, pp. 381–383.

Silurian, Bainbridge Limestone.

South slopes of Greither Hills overlooking St. Mary's road, 2½ miles southeast of Ozora, Missouri.

Camarotoechia lamellata (Hall, 1852)

See: *Atrypa lamellata* (Hall, 1852).

Camarotoechia litchfieldensis (Schuchert, 1903)

See: *Rhynchonella agglomerata* S. Weller, 1903.

Camarotoechia mutata (Hall, 1856)

Referred specimens: UC 7735, ten specimens.
S. Weller, 1914, pp. 181–183, pl. 24, figs. 41–45.

Mississippian, Salem Limestone.

Spergen Hill, Indiana; Gurley Collection.

Referred specimens: UC 13931, 32 specimens.
S. Weller, 1914, pp. 181–183, pl. 24, figs. 53–60.

Mississippian, Salem Limestone.

Hull's Hollow, above Alton, Illinois; Van Horne Collection.

See also: *Pugnax mutatus* (Hall, 1856).

Camarotoechia neglectoidea Ball, 1931

Holotype: original designation UC 52021 (not UC 22310).
Ball *in* Ball and Dunn, 1931, pp. 387–388, pl. 1, figs. 21–25.

Silurian, Bainbridge Limestone.

South slopes of Greither Hills, 2½ miles southeast of Ozora, Missouri.

Camarotoechia (Plethorhyncha) speciosa (Hall, 1857)

Referred specimens: UC 12411, five single valves.
Hall and Clarke, 1894, pl. 43, figs. 10–12, 14.
Hall and Clarke, 1895a, pl. 58, figs. 34–37.

= *Plethorhyncha speciosa* (Hall, 1857)
Schmidt *in* Moore, 1965, p. 566, text fig. 437, 1d.

Devonian, Oriskany.

Hall locality 256, "Cumberland, Maryland, Andrews Collection"; Hall Collection.

Camarotoechia welleri Branson and Williams, 1922

Holotype: original designation UC 23885.
Branson and Williams *in* Branson, 1922, p. 144, pl. 34, figs. 3–6.

Devonian, Grand Tower Limestone.

Little Saline Creek in Ste. Genevieve County, Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Camarotoechia sp.

Referred specimen: UC 12404.
Hall and Clarke, 1895a, pl. 57, figs. 51–53.

Mississippian, Burlington Limestone (Chert).
Burlington, Iowa; Hall Collection.

Referred specimen: UC 12405.
Hall and Clarke, 1895a, pl. 57, fig. 54.
Mississippian, Waverly.
Ohio; Hall Collection.

Camerella hemiplicata (Hall, 1847)
See: *Parastrophia hemiplicata* (Hall, 1847).

Campylorthis loricula (Hall and Clarke, 1892)
See: *Orthis* (*Plaesiomys*) *loricula* Hall and Clarke, 1892.

Catazyga erratica (Hall, 1847)
See: *Zygospira* (*Orthonomaea*) *erratica* (Hall, 1847).

Catazyga headi (Billings, 1862)
Referred specimen: UC 12393.
Hall and Clarke, 1893, pp. 157–158.
Hall and Clarke, 1894, pl. 40, figs. 26–28.
Hall and Clarke, 1895a, pl. 54, figs. 24–26.
Ordovician, Cincinnatian.
Near Ottawa, Ontario, Canada; Hall Collection.

Referred specimen: UC 12394, a pedicle valve.
Hall and Clarke, 1893, pp. 157–159.
Hall and Clarke, 1895a, pl. 54, fig. 30.
Ordovician, Cincinnatian.
Waynesville, Ohio (not Indiana); Hall Collection.

Catazyga headi var. **anticostiensis** (Billings, 1862)
Referred specimen: UC 12396.
Hall and Clarke, 1893, p. 158.
Hall and Clarke, 1895a, pl. 54, figs. 33, 34.
Ordovician, Cincinnatian.
Collingwood, Ontario, Canada; Hall Collection.

Catazyga headi var. **borealis** (Billings, 1862)
Referred specimen: UC 12395.

Hall and Clarke, 1893, p. 158.
Hall and Clarke, 1895a, pl. 54, fig. 27.
Ordovician, Cincinnatian.
Waynesville, Ohio; Hall Collection.

Catazyga sp.
Referred specimens: UC 29220, two pedicle valves and a brachial valve.
Culbertson, 1926, p. 115, pl. on p. 113, figs. 2–4.
Silurian, Brassfield Limestone.
Hanover, Indiana; gift of J. A. Culbertson.

Centronella? biplicata S. Weller, 1903
Holotype, not designated, to be selected from UC 10428.

Referred specimens: UC 10428, three specimens.
S. Weller, 1903, pp. 261–262, pl. 24, figs. 1–8.
Silurian, Manlius Limestone.
S. Weller, 1903 locality 2A[25], William Nearpass Quarry, New Jersey, two miles south of Tri-States, New York; New Jersey Collection.
Remarks: Cloud, 1942, p. 74, rejects this species from the genus but does not reassign it to another genus.

Centronella glansfagea (Hall, 1857)
Referred specimens: UC 14109, two specimens.
Hall and Clarke, 1893, pp. 265–275, text fig. 180.
Hall and Clarke, 1895a, pl. 79, fig. 21.
Devonian, Onondagan.
Cayuga, Ontario, Canada; Hall Collection.

Referred specimens: UC 27507, three specimens.
Stewart *in* Branson, 1922, p. 242, pl. 64, figs. 4–7.
Devonian, Upper Little Saline Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Centronella louisianensis S. Weller, 1914
Holotype, not designated, to be selected from UC 6730.

Referred specimens: UC 6730, 20 specimens.
S. Weller, 1914, pp. 241–242, pl. 30, figs. 26–29.

= not *Centronella*
Cloud, 1942, p. 74.

= *Dorsisinus louisianensis* (S. Weller, 1914)
Sanders, 1958, pp. 53–54.
McLaren *in* Moore, 1965, p. 592, text figs. 475, 1a–b.

Mississippian, Louisiana Limestone.

Louisiana, Missouri; collected by S. Weller, 1896.

Centronella? subrhomboidea S. Weller, 1903

Holotype: original designation UC 10454.
S. Weller, 1903, pp. 311–312, pl. 37, figs. 7–10.

= ?*Nanothyris subrhomboidea* (S. Weller, 1903)
Cloud, 1942, pp. 47, 74.

Devonian, New Scotland.

S. Weller, 1903 locality 2A[29], Nearpass Section, New Jersey.

Charionella hyale (Billings, 1862)

See: *Whitfieldella hyale* (Billings, 1862)

Chonetes alatus Moore, 1928

Holotype, not designated, to be selected from UC 32123.

Referred specimens: UC 32123, two pedicle valves.
Moore, 1928, pp. 262–263, pl. 11, figs. 3, 4.

Mississippian, Kinderhook.

Kinderhook, Illinois; collected by R. C. Moore.

Chonetes arkansanus Mather, 1915

Holotype, not designated, to be selected from UC 16084.

Referred specimens: UC 16084, nine specimens.
Mather, 1915, pp. 149–150, pl. 8, fig. 4.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 210, Sawney Hollow, Oklahoma; Mather, donor.

Chonetes burlingtonensis S. Weller, 1901

Holotype: original designation UC 6669, a pedicle valve.

S. Weller, 1901, p. 184, pl. 16, fig. 9.
S. Weller, 1914, pp. 93–94, pl. 8, fig. 18.
= *Rugosochonetes burlingtonensis* (S. Weller, 1901)
Muir-Wood, 1962, p. 65.
Carter, 1967, pp. 278–279.
Mississippian, Kinderhook Bed no. 6.
Burlington, Iowa; S. Weller Collection.

Referred specimens: UC 13943, seven specimens.
S. Weller, 1914, pp. 93–94, pl. 8, fig. 19.
= *Rugosochonetes burlingtonensis* (S. Weller, 1901)
Muir-Wood, 1962, p. 65.
Mississippian, Kinderhook Bed no. 6.
Burlington, Iowa; collected by S. Weller, 1902.

Chonetes cherokeensis Snider, 1915

Holotype, not designated, to be selected from UC 16197.

Referred specimens: UC 16197, three specimens.
Snider, 1915, p. 77, pl. 3, figs. 16–18.
Mississippian, Mayes Formation.
Snider, 1915 locality M 15, Vinita Quadrangle, Oklahoma; Snider, donor.

Chonetes chesterensis S. Weller, 1914

= *Rugosochonetes chesterensis* (S. Weller, 1914)
Muir-Wood, 1962, p. 65.
Holotype, not designated, to be selected from UC 7693 and UC 14761.

Referred specimens: UC 7693, two specimens.
S. Weller, 1914, pp. 83–84, pl. 8, figs. 33, 34.
Mississippian, Chester Group, Kaskaskia Formation.
Monroe County, Illinois; Gurley Collection.

Referred specimen: UC 14761.
S. Weller, 1914, pp. 83–84, pl. 8, figs. 31, 32.
Mississippian, Paint Creek Formation.
St. Clair County, Illinois; Gurley Collection.

Chonetes chouteauensis Mather, 1915

Holotype, not designated, to be selected from UC 16083.

Referred specimens: UC 16083, two pedicle valves.
Mather, 1915, pp. 150–151, pl. 8, figs. 9–10a.

Pennsylvanian, Morrow Formation.

Mather, 1915 station 295, near Chouteau, Oklahoma; Mather, donor.

Remarks: Harlow, personal communication 1958, states that these specimens are productids.

Chonetes coronatus Hall, 1857

Referred specimens: UC 23996, five specimens.
Branson, 1922, pp. 138–139, pl. 32, fig. 1.

Devonian, St. Laurent Limestone.

S. Weller locality 14-10, three miles south of St. Marys, Missouri; collected by S. Weller.

Remarks: *C. coronatus* = *Devonochonetes coronatus* (Hall, 1857)
Muir-Wood, 1962, p. 44.

Chonetes geniculatus White, 1862

Referred specimens: UC 6727, 30 specimens.
S. Weller, 1914, pp. 92–93, pl. 8, figs. 35–42.

= *Plicochonetes geniculatus* (White, 1862)
Sanders, 1958, p. 49.

Mississippian, Louisiana Limestone.

Louisiana, Missouri; collected by S. Weller, 1896.

Chonetes cf. **C. geniculatus** White, 1862

Referred specimen: UC 5927, a pedicle valve.
S. Weller, 1900a, pp. 68–69, pl. 1, fig. 16.

Mississippian, Chonopectus Sandstone.

Burlington, Iowa; S. Weller Collection.

Remarks: *C. geniculatus* = *Plicochonetes geniculatus* (White, 1862)
Sanders, 1958, p. 49.

Chonetes glenparkensis S. Weller, 1906

= *Plicochonetes glenparkensis* (S. Weller, 1906)
Muir-Wood, 1962, p. 82.

Holotype: UC 11355, a single valve.
S. Weller, 1906, pp. 441–442, pl. 6, fig. 7.
S. Weller, 1914, pp. 87–89, pl. 8, fig. 30.

Branson, 1938a, pp. 29–30 (not cotypes).
Mississippian, Glen Park Limestone.
Glen Park, Missouri; collected by S. Weller, 1904.

Referred specimens: UC 9721, 12 specimens.
S. Weller, 1914, pp. 87–89, pl. 8, figs. 47–49.
Branson, 1938a, pp. 29–30 (not cotypes).
Mississippian, Chouteau Limestone.
Pettis County, Missouri; Sampson Collection.

Chonetes gregarius S. Weller, 1901
Holotype, not designated, to be selected from UC 6654.

Referred specimens: UC 6654, two specimens.
S. Weller, 1901, pp. 149–150, pl. 12, fig. 2.
Mississippian, Kinderhook Bed no. 3.
Burlington, Iowa; S. Weller Collection.

Referred specimens: UC 13944, 15 specimens.
S. Weller, 1914, pp. 91–92, pl. 8, figs. 71, 72.
Mississippian, Kinderhook Bed no. 3.
Burlington, Iowa; Baker, donor.

Chonetes illinoisensis Worthen, 1860
Referred specimens: UC 2968, three single valves.
S. Weller, 1914, pp. 81–82, pl. 8, figs. 65–67.
Mississippian, Burlington Limestone.
S. Weller, 1914 locality 26, near Springfield, Missouri; S. Weller Collection.

Referred specimens: UC 2969, three single valves.
S. Weller, 1914, pp. 81–82, pl. 8, figs. 68–70.
Mississippian, Keokuk Limestone.
S. Weller, 1914 locality 24[8], near Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 5925, a single valve.
S. Weller, 1900a, pp. 67–68, pl. 1, fig. 14.
Mississippian, Chonopectus Sandstone.
Burlington, Iowa; S. Weller Collection.

Referred specimen: UC 5958, a single valve.

S. Weller, 1899, pp. 15–16, pl. 4, fig. 10.

Mississippian, Northview Sandstone.

S. Weller, 1899, locality 1-A, Northview, Missouri; collected by S. Weller, 1898.

Referred specimens: UC 14380, three specimens.
S. Weller, 1914, pp. 81–82, pl. 8, figs. 63, 64.

Mississippian, Burlington Limestone.

Hall locality 372, "Boonville etc. Missouri. Specimens sent by Dr. G. A. Williams"; Hall Collection.

Chonetes jerseyensis S. Weller, 1900

Holotype, not designated, to be selected from UC 10399 and UC 10400.

Referred specimens: UC 10399, four single valves.
S. Weller, 1900b, p. 8, footnote.
S. Weller, 1903, pp. 230–231, pl. 20, figs. 12, 14, 15.
Swartz and Whitmore, 1956, p. 1090.

=*Eccentricosta jerseyensis* (S. Weller, 1900)
Berdan, 1963, pp. 254–256, text fig. 1A.

Silurian, Decker Ferry.

S. Weller, 1903 locality $2A^3$, William Nearpass Quarry, New Jersey, two miles south of Tri-States, New York; New Jersey Collection.

Referred specimens: UC 10400, two single valves.
S. Weller, 1900b, p. 8, footnote.
S. Weller, 1903, pp. 230–231, pl. 20, figs. 11, 13.
Swartz and Whitmore, 1956, p. 1090.

=*Eccentricosta jerseyensis* (S. Weller, 1900)
Berdan, 1963, pp. 254–256.

Silurian, Decker Ferry.

S. Weller, 1903 locality 8A, "on the next farm south of that upon which the William Nearpass Quarry is located," New Jersey, two miles south of Tri-States, New York; New Jersey Collection.

Referred specimen: UC 10399A, single valve.
S. Weller, 1900b, p. 8, footnote.
S. Weller, 1903, pp. 230–231, pl. 20, fig. 16.

=Holotype of *Chonetes jerseyensis* var. *nondivergens* Swartz, 1956.

Swartz *in* Swartz and Whitmore, 1956, p. 1090.

=*Eccentricosta jerseyensis* var. *nondivergens* (Swartz, 1956) Berdan, 1963, p. 255.

Silurian, Decker Ferry.

S. Weller, 1903 locality $2A^3$, William Nearpass Quarry, New Jersey, two miles south of Tri-States, New York; New Jersey Collection.

Chonetes jerseyensis var. **nondivergens** Swartz, 1956

Holotype: UC 10399A.

See: *Chonetes jerseyensis* S. Weller, 1900.

Chonetes laevis Keyes, 1888

Referred specimens: UC 16082, two pedicle valves. Mather, 1915, pp. 151–152, pl. 8, figs. 13, 14.

Pennsylvanian, Morrow Formation.

Mather, 1915 station 301, near Ft. Gibson, Oklahoma; Mather, donor.

Remarks: *C. laevis* =*Eolissochonetes keyesi* Muir-Wood, 1962 Muir-Wood, 1962, pp. 75–76.

Chonetes logani Norwood and Pratten, 1855

Referred specimens: UC 4689, two specimens. S. Weller, 1909, pp. 299–300, pl. 12, figs. 12, 13.

Mississippian, Fern Glen Formation.

S. Weller, locality 9, near Kimmswick, Missouri; collected by S. Weller, 1896.

Referred specimen: UC 6668, a single valve. S. Weller, 1901, pp. 182–184, pl. 16, figs. 10, 11.

Mississippian, Kinderhook Bed no. 6.

Burlington, Iowa; S. Weller, donor.

Remarks: *C. logani* = *Retichonetes logani* (Norwood and Pratten, 1855)

Muir-Wood, 1962, p. 63.

Chonetes missouriensis S. Weller, 1914

Holotype: original designation UC 8560A, a single valve. S. Weller, 1914, pp. 82–83, pl. 8, fig. 20.

Branson, 1938a, p. 30, pl. 3, fig. 7.

Referred specimens: UC 8560, five specimens.
S. Weller, 1914, pp. 82–83.
Branson, 1938a, p. 30.

Mississippian, Pierson Limestone.

Near Springfield, Missouri; S. Weller Collection.

Chonetes mucronatus (Hall, 1843)

Referred specimens: UC 23875, 23 specimens.
Branson and Williams *in* Branson, 1922, p. 139, pl. 35, fig. 14.

Devonian, Grand Tower Limestone (catalogue); St. Laurent Sandstone (published).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Chonetes multicosta Winchell, 1863

Referred specimens: UC 352, two specimens.
S. Weller, 1914, pp. 79–80, pl. 8, figs. 10, 11.

Mississippian, Burlington Limestone.

Springfield, Missouri; S. Weller Collection.

Chonetes oklahomensis Snider, 1915

Holotype: not designated, to be selected from UC 16196.

Referred specimens: UC 16196, three specimens.
Snider, 1915, p. 76, pl. 3, figs. 12–15.

Mississippian, Fayetteville Limestone.

Snider, 1915, locality F21, near Todd, Vinita Quadrangle, Oklahoma; Snider, donor.

Referred specimens: UC 16813, eight specimens.
Snider, 1915, pp. 76–77.

Mississippian, Fayetteville Formation.

Snider, 1915, locality F4, near Ft. Gibson, Oklahoma; Snider, donor.

Referred specimens: UC 16816, three specimens.
Snider, 1915, pp. 76–77.

Mississippian, Fayetteville Formation.

Snider, 1915, locality F16, near Adair, Oklahoma; Snider, donor.

Chonetes ornatus Shumard, 1855

Referred specimens: UC 6726, 14 specimens.
S. Weller, 1914, pp. 86–87, pl. 8, figs. 21–29.

Mississippian, Louisiana Limestone.

Louisiana, Missouri; collected by S. Weller, 1896.

Chonetes planumbonus Meek and Worthen, 1860

Referred specimens: UC 7684, three specimens.
S. Weller, 1914, pp. 94–95, pl. 8, figs. 58–62.

Mississippian, Keokuk Limestone.

Ste. Genevieve County, Missouri; Gurley Collection.

Chonetes shumardianus DeKoninck, 1847

Referred specimens: UC 13940, nine specimens.
S. Weller, 1914, pp. 89–91, pl. 8, figs. 1–7.
Cooper *in* Shimer and Shrock, 1944, p. 345, pl. 134, figs. 28, 29.

Mississippian, Knobstone, New Providence Shale.

Lebanon, Kentucky; Hall Collection.

Chonetes tumescens Easton, 1943

Holotype: original designation UC 48296.
Easton, 1943, pp. 146–147, pl. 24, figs. 1, 4, 5.

Referred specimens: UC 48297, two single valves.
Easton, 1943, pp. 146–147, pl. 24, figs. 2, 3.

Referred specimens: UC 48298, two specimens; UC 48299, four specimens; UC 48300, over 100 specimens.
Easton, 1943, pp. 146–147.

Mississippian, Pitkin Formation.

Thick shale above first massive limestone in quarry west of road, 0.3 mile south of Leslie, Arkansas; Easton Collection.

Chonetes tumidus Herrick, 1888

Referred specimens: UC 54047, 11 specimens.
Herrick, 1888a, p. 36.

Mississippian, Waverly Group, Nodular Layer.

Hall locality 385, "Moot's Run, St. Albans Township, Licking County, Ohio, on the road to Jersey. Bought of W. Cooper, Granville, Ohio, November, 1888. Ohio Waverly Series= Ohio Black Shale to top of Cuyahoga Shales"; Hall Collection.

Referred specimens: UC 54048, two specimens.
Herrick, 1888a, p. 36.

Mississippian, Waverly Group, Nodular Layer.

Hall locality 384, "Burbank, Wayne County, Ohio. Bought of W. Cooper, Granville, Ohio, November, 1888. Ohio Waverly Series=Ohio Black Shale to top of Cuyahoga Shales"; Hall Collection.

Referred specimens: UC 54050, three specimens.
Herrick, 1888a, p. 36.

Mississippian, Waverly Group, Base of Cuyahoga Shale, Nodular Layer.

Hall locality 396, "Lode, Medina County, Ohio. July 1–10, 1891, W. F. Cooper, collector."

Referred specimens: UC 54051, five specimens.
Herrick, 1888a, p. 36.

Mississippian, Waverly Group.

Medina County, Ohio; Hall Collection (purchased from Cooper, 1891).

Referred specimens: UC 54052, three specimens.
Herrick, 1888a, p. 36.

Mississippian, Waverly Group, Cuyahoga Shale.

Hall locality 395, "Burbank, Wayne County, Ohio, July 1–10, 1891, W. F. Cooper, collector."

Remarks: UC 54050, UC 54051, and UC 54052 were found together with Cooper's original field label which reads "Found in the Cuyahoga Shale at Cuyahoga Falls, Hanover Township, Ashland County, Moot's Run, Licking County (nodule layer), 4 mi. below Portsmouth on Ohio river." The specimens were given UC numbers according to the numbers on the James Hall locality labels.

Chonetes sp.

Referred specimen: UC 5926, a single valve.
S. Weller, 1900a, pl. 1, fig. 16.

Mississippian, Chonopectus Sandstone.

Burlington, Iowa; S. Weller Collection.

Referred specimens: UC 11354, five specimens.

S. Weller, 1906, pl. 6, figs. 8–11.
S. Weller, 1914, pl. 8, figs. 50–53, 55.

Mississippian, Glen Park Limestone.

S. Weller, 1906, locality 11, Glen Park, Missouri; collected by S. Weller, 1904.

Referred specimens: UC 54049, three specimens.
Herrick, 1888a, p. 36.

Mississippian, Waverly Group, top of Division II.

Hall locality a/382, "Granville, Licking County, Ohio. Bought of W. Cooper, Granville, Ohio, November, 1888. Ohio Waverly Series=Ohio Black Shale to top of Cuyahoga Shales"; Hall Collection.

Referred specimens: UC 13945, nine specimens.
S. Weller, 1914, pl. 8, figs. 56, 57.

Mississippian, Kinderhook Bed no. 3.

Burlington, Iowa; Baker, donor.

Chonopectus fischeri (Norwood and Pratten, 1855)

Referred specimen: UC 6655, a single valve.
S. Weller, 1901, p. 150, pl. 12, fig. 1.

Mississippian, Kinderhook Bed No. 3.

Burlington, Iowa; S. Weller, donor.

Referred specimen: UC 6657, two single valves on one piece of limestone.
S. Weller, 1901, p. 154, pl. 13, fig. 17.
S. Weller, 1914, pp. 96–97, pl. 8, fig. 73.

Mississippian, Kinderhook Bed No. 4.

Burlington, Iowa; S. Weller, donor.

Chonostrophia complanata (Hall, 1857)

Referred specimens: UC 27468, two specimens.
Stewart *in* Branson, 1922, p. 237, pl. 63, figs. 6, 7.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *C. complanata=Chonostrophiella complanata* (Hall, 1857) Boucot and Amsden, 1964, pp. 881–882

Chonostrophia helderbergia Hall and Clarke, 1892

Holotype: UC 11889.
Hall and Clarke, 1892a, p. 353, pl. 15B, fig. 14.

Devonian, New Scotland Beds.

Near Clarksville, New York; Hall Collection.

Chonostrophia reversa (Whitfield, 1882)

Referred specimen: UC 11943.
Hall and Clarke, 1892a, p. 311, pl. 15B, figs. 18, 19.
Boucot and Amsden, 1964, p. 882.
Muir-Wood *in* Moore, 1965, p. 434, text figs. 291, 1c, 1d.

Devonian, Onondaga Limestone.

Delaware, Ohio; Hall Collection.

Referred specimen: UC 11944.
Hall and Clarke, 1892a, pl. 15B, fig. 15.
Boucot and Amsden, 1964, p. 882.

Devonian, Onondaga Limestone.

Hall locality 291=691, "Canada West"; Hall Collection.

Chonostrophiella complanata (Hall, 1857)

See: *Chonostrophia complanata* (Hall, 1857).

Cistella beecheri Clarke, 1895

Referred specimens: UC 18685, four specimens
S. Weller, 1907, pp. 361–362, pl. 27, figs. 14–17.

Cretaceous, Vincentown Limesand.

S. Weller, 1907, locality 154, Vincentown, New Jersey; New Jersey Collection.

Remarks: *Cistella* Gray, 1853 = *Argyrotheca* Dall, 1900
Hatai *in* Moore, 1965, p. 831.

Cleiothyris incrassata (Hall, 1858)

Referred specimen: UC 13917.
S. Weller, 1909, pp. 313–314, pl. 14, figs. 9, 10.

=*Cliothyridina obmaxima* (McChesney, 1860)
S. Weller, 1914, pp. 475–476, pl. 79, figs. 2–6.

Mississippian, Fern Glen Formation.

Chautauqua, Illinois; collected by S. Weller, 1906.

Remarks: S. Weller, 1914, p. 472, spelling of *Cliothyridina* Buckman, 1906, is an erroneous spelling of *Cleiothyridina* Buckman, 1906, p. 324.

See also: *Athyris incrassata* Hall, 1858.

Cleiothyris prouti (Swallow, 1860)

Referred specimens: UC 4695 (not UC 46951), four specimens.
S. Weller, 1909, pp. 314–315, pl. 14, figs. 12–15.

=*Cliothyridina prouti* (Swallow, 1860)
S. Weller, 1914, pp. 474–475, pl. 79, figs. 13–16.

Mississippian, Fern Glen Formation.

S. Weller locality 9, near Kimmswick, Missouri; S. Weller Collection.

Remarks: S. Weller, 1914, p. 472, spelling of *Cliothyridina* Buckman, 1906, is an erroneous spelling of *Cleiothyridina* Buckman, 1906, p. 324.

Cleiothyris royssi (L'Eveillé, 1835)

Referred specimens: UC 13901, three specimens.
S. Weller, 1909, p. 313, pl. 14, figs. 1–3.

="cotypes" of *Cliothyridina glenparkensis* S. Weller, 1914
S. Weller, 1914, pp. 473–474, pl. 78, figs. 21–24.

Mississippian, Fern Glen Formation.

S. Weller, 1909, locality 22, Fern Glen, Missouri; S. Weller Collection.

Remarks: S. Weller, 1914, p. 472, spelling of *Cliothyridina* Buckman, 1906, is an erroneous spelling of *Cleiothyridina* Buckman, 1906, p. 324.

Cliothyridina glenparkensis S. Weller, 1914

"Cotypes": UC 13901.

See: *Cleiothyris royssi* (L'Eveillé, 1835).

Cliothyridina hirsuta (Hall, 1856)

See: *Cliothyris hirsuta* (Hall, 1856).

Cliothyridina lenticularis S. Weller, 1914

Holotype, not designated, to be selected from UC 12992.

Referred specimens: UC 12992, three specimens.
S. Weller, 1914, pp. 480–481, pl. 80, figs. 25–30.

Mississippian, St. Louis Limestone.

River des Peres, one mile southwest of Carondelet, Missouri; Van Horne Collection.

Remarks: S. Weller, 1914, p. 472, spelling of *Cliothyridina* Buckman, 1906, is an erroneous spelling of *Cleiothyridina* Buckman, 1906, p. 324.

Cliothyridina obmaxima (McChesney, 1860)

Referred specimen: UC 7596.
S. Weller, 1914, pp. 475–476.

Mississippian, Keokuk Limestone.

Keokuk, Indiana; Gurley Collection.

Remarks: S. Weller, 1914, p. 472, spelling of *Cliothyridina* Buckman, 1906, is an erroneous spelling of *Cleiothyridina* Buckman, 1906, p. 324.

See also: *Athyris incrassata* Hall, 1858, UC 12473.
Cleiothyris incrassata (Hall, 1858), UC 13917.

Cliothyridina parvirostra (Meek and Worthen, 1860)

Referred specimen: UC 383, a pedicle valve.
S. Weller, 1914, pp. 481–482, pl. 78, fig. 25.

Mississippian, Residuary Chert.

Springfield, Missouri; Weller Collection.

Referred specimen: UC 7611.
S. Weller, 1914, pp. 481–482, pl. 80, figs. 61–63.

Mississippian, Keokuk.

Jersey County, Illinois; Gurley Collection.

Referred specimen: UC 7614.
S. Weller, 1914, pp. 481–482, pl. 80, figs. 64–66.

Mississippian, Keokuk.

Warsaw, Illinois; Gurley Collection.

Remarks: S. Weller, 1914, p. 472, spelling of *Cliothyridina* Buckman, 1906, is an erroneous spelling of *Cleiothyridina* Buckman, 1906, p. 324.

Cliothyridina prouti (Swallow, 1860)

See: *Cleiothyris prouti* (Swallow, 1860).

Cliothyridina sublamellosa (Hall, 1858)

Referred specimens: UC 25397, four specimens.
S. Weller, 1920, p. 354, pl. 8, figs. 21–24.

Mississippian, Shetlerville Formation.

S. Weller, 1920, locality W327, Fairview Bluff, Hardin County, Illinois; collected by S. Weller, 1907.

Referred specimens: UC 25409, two specimens.
S. Weller, 1920, pp. 360–361, pl. 9, figs. 39, 40.

Mississippian, Golconda Limestone.

S. Weller, 1920, locality W17-4, 2½ miles northwest of Elizabethtown, Illinois; collected by S. Weller, 1917.

Referred specimen: UC 25410.
S. Weller, 1920, pp. 360–361, pl. 9, fig. 41.

Mississippian, Golconda Limestone.

S. Weller, 1920, locality W17-5, two miles north of Elizabethtown, Illinois; collected by S. Weller, 1917.

Remarks: S. Weller, 1914, p. 472, spelling of *Cliothyridina* Buckman, 1906, is an erroneous spelling of *Cleiothyridina* Buckman, 1906, p. 324.

Cliothyridina sp.

See: *Athyris* (*Cleiothyris*?) sp.

Cliothyris hirsuta (Hall, 1856)

Referred specimens: UC 12367, three specimens.
Hall and Clarke, 1893, p. 91.
Hall and Clarke, 1895a, pl. 46, figs. 25–28.

=*Cliothyridina hirsuta* (Hall, 1856)
S. Weller, 1914, p. 479.

Mississippian, Salem Limestone.

Bloomington, Indiana; Hall Collection.

Remarks: S. Weller, 1914, p. 472, spelling of *Cliothyridina* Buckman, 1906, is an erroneous spelling of *Cleiothyridina* Buckman, 1906, p. 324.

Clitambonites diversus (Shaler, 1865)

Referred specimen: UC 29046, a pedicle valve.
Bradley, 1930, pp. 227–228, pl. 23, figs. 13–15.

Ordovician, Kimmswick Limestone.

Glencoe Lime Co., Glen Park, Missouri [catalogue]; near Glen Park, Missouri [published]; collected by Bradley.

Clorinda barrandii (Billings, 1857)

See: *Barrandella barrandii* (Billings, 1857).

Clorinda ventricosa (Hall, 1860)

See: *Barrandella ventricosa* (Hall, 1860).

Cloudella stewarti (Clarke, 1907)

See: *Rensselaeria* cf. *stewarti* Clarke, 1907.

Coelospira? planoconvexa (Hall, 1852)

Referred specimens: UC 12388, two specimens.
Hall and Clarke, 1893, p. 136.
Hall and Clarke, 1895a, pl. 53, figs. 11–13, 16.

Silurian, Clinton Formation.

Hamilton, Ontario, Canada; Hall Collection.

See also: *Anoplotheca concava* (Hall, 1857).

Coledium cestriensis (Snider, 1915)

See: *Camarophoria cestriensis* Snider, 1915.

Coledium explanatum (McChesney, 1860)

See: *Camarophoria explanata* (McChesney, 1860).

Composita argentea (Shepard, 1838)

See: *Terebratula subtilita* Hall, 1852.

Composita biplicata Mather, 1915

Holotype: original designation UC 16092.
Mather, 1915, p. 205, pl. 14, figs. 5–5c.

Pennsylvanian, Morrow Formation.

Mather, 1915 station 301, near Ft. Gibson, Oklahoma; Mather, donor.

Composita? corpulenta (Winchell, 1863)

Referred specimens: UC 13899, six specimens.

S. Weller, 1914, pp. 495–496, pl. 77, figs. 55–59.

Mississippian, Chonopectus Sandstone.

Burlington, Iowa; Hall Collection.

Composita deflecta Mather, 1915

Holotype: original designation UC 16088.
Mather, 1915, pp. 203–204, pl. 14, figs. 1–1c.

Referred specimens: UC 16089, two specimens.
Mather, 1916, pp. 203–204, pl. 14, figs. 2–3b.

Pennsylvanian, Brentwood Limestone.

Mather, 1915, station 134, near Fayetteville, Arkansas; Mather, donor.

Composita gibbosa Mather, 1915

Holotype: original designation UC 16090.
Mather, 1915, pp. 204–205, pl. 13, figs. 18–18c.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 152, near Fayetteville, Arkansas; Mather, donor.

Referred specimens: UC 16091, two specimens.
Mather, 1915, pp. 204–205, pl. 13, figs. 16–17a.

Pennsylvanian, Morrow Formation.

Mather, 1915 station 304, Gore, Oklahoma; Mather, donor.

Composita globosa S. Weller, 1914

Holotype, not designated, to be selected from UC 3003.

Referred specimens: UC 3003, 14 specimens.
S. Weller, 1914, pp. 493–494, pl. 82, figs. 21–26.

Mississippian, Keokuk Limestone.

S. Weller, 1914 locality 24, near Springfield, Missouri; S. Weller Collection.

Composita ovata Mather, 1915

Holotype: original designation UC 16150.
Mather, 1915, pp. 202–203, pl. 14, figs. 6–6c.

Pennsylvanian, Hale Formation.

Mather, 1915 station 139, East Mountain, Fayetteville, Arkansas; Mather, donor.

Composita ozarkana Mather, 1915

Referred specimen: UC 16086.
Mather, 1915, pp. 198–200, pl. 13, figs. 12, 12a.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 138, near Fayetteville, Arkansas; Mather, donor.

Referred specimens: UC 16087, two specimens.
Mather, 1915, pp. 198–200, pl. 13, figs. 11, 11a, 13, 13a.

Pennsylvanian, Hale Formation.

Mather, 1915 station 137, East Mountain, Fayetteville, Arkansas; Mather, donor.

Composita rotunda Snider, 1915

Holotype: UC 16212.
Snider, 1915, pp. 98–99, pl. 5, figs. 25–28.

Mississippian, Mayes Formation.

Snider, 1915 locality M5, near Ft. Gibson, Muskogee Quadrangle, Oklahoma; Snider, donor.

Composita subquadrata (Hall, 1858)

Referred specimens: UC 7627, five specimens.
S. Weller, 1914, pp. 489–490, pl. 81, figs. 1–8.
Cooper *in* Shimer and Shrock, 1944, p. 335, pl. 128, figs. 13–15.

Mississippian, Chester Group.

Chester, Illinois; Gurley Collection.

Referred specimens: UC 25428, three specimens.
S. Weller, 1920, p. 375, pl. 11, figs. 12–14.

Mississippian, Clore Formation.

S. Weller, 1920 locality W16-5, two miles northeast of Waltersburg, Brownfield Quadrangle, Illinois; collected by S. Weller, 1916.

Composita sulcata S. Weller, 1914

Holotype, not designated, to be selected from UC 13782.

Referred specimens: UC 13782, 14 specimens.
S. Weller, 1914, pp. 490–491, pl. 82, figs. 1–10.

Mississippian, Chester Group.

Hall, locality 366, "from Meade County, Kentucky, 1879 from Henry Nettelroth"; Hall Collection.

Composita transversa Mather, 1915

Holotype: original designation UC 16151.
Mather, 1915, p. 206, pl. 14, figs. 4–4c.

Pennsylvanian, Hale Formation.

Mather, 1915 station 137, East Mountain, Fayetteville, Arkansas; Mather, donor.

Composita trinuclea (Hall, 1856)

Referred specimens: UC 389, six specimens.
S. Weller, 1914, pp. 486–488, pl. 81, figs. 27–30.

Mississippian, Salem Limestone.

Spergen Hill, Indiana; James Collection.

Referred specimens: UC 926 (not UC 13926), five specimens.
S. Weller, 1914, pp. 486–488, pl. 81, figs. 31–34.

Mississippian, Salem Limestone.

Hull's Hollow, Madison County, Illinois; Van Horne Collection.

Referred specimens: UC 7617, six specimens.
S. Weller, 1914, pp. 486–488, pl. 81, figs. 36–45.

Mississippian, Pella Beds.

Pella, Iowa; Gurley Collection.

Referred specimens: UC 7620, five specimens.
S. Weller, 1914, pp. 486–488, pl. 81, figs. 16–26.
Cooper *in* Shimer and Shrock, 1944, p. 335, pl. 128, figs. 16–20.

Mississippian, Salem Limestone.

Spergen Hill, Indiana; Gurley Collection.

Referred specimens: UC 14824, eight specimens.
S. Weller, 1916, p. 246, pl. 16, figs. 3–6.

Mississippian, Ste. Genevieve Limestone.

Fountain Creek, near Waterloo, Illinois; collected by S. Weller, 1906.

Referred specimen: UC 25398.
S. Weller, 1920, p. 354, pl. 8, figs. 19, 20.

Mississippian, Shetlerville Formation.

S. Weller, 1920 locality W327, Fairview Bluff, Hardin County, Illinois; collected by S. Weller, 1907.

Referred specimens: UC 25408, two specimens.

S. Weller, 1920, p. 361, pl. 9, figs. 37, 38.

Mississippian, Golconda Limestone.

S. Weller, 1920 locality W17-4, 2½ miles northwest of Elizabethtown, Illinois; collected by S. Weller, 1917.

See also: *Seminula subquadrata* (Hall, 1858); UC 12371, UC 12372, UC 12938.

Seminula trinuclea (Hall, 1856); UC 12368, UC 12369, UC 12370.

Composita wasatchensis (White, 1874)

Referred specimen: UC 16241.

Mather, 1915, pp. 200–201, pl. 14, figs. 8–8b.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 134, near Fayetteville, Arkansas; Mather, donor.

Referred specimen: UC 16709.

Mather, 1915, pp. 200–201, pl. 14, figs. 7–7b.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 134, near Fayetteville, Arkansas; Mather, donor.

Conchidium colletti (S. A. Miller, 1891)

See: *Pentamerus colletti* S. A. Miller, 1891.

Conchidium crassiplica Hall and Clarke, 1895

Holotype: UC 12442.

Hall and Clarke, 1895a, p. 369, pl. 66, figs. 24, 25.

Hall and Clarke, 1895b, p. 367, pl. 11, figs. 3, 4.

Hall and Clarke, 1895c, p. 367, pl. 11, figs. 3, 4.

= *Platymerella crassiplica* (Hall and Clarke, 1895).

Schuchert and Cooper, 1932, p. 184.

Silurian, Niagaran Group.

Near Louisville, Kentucky; Hall Collection.

Conchidium decussatum (Whiteaves, 1891)

Referred specimens: UC 12440, three specimens.

Hall and Clarke, 1893, p. 235.

Hall and Clarke, 1895a, pl. 65, figs. 1, 2, pl. 66, fig. 15.

= *Virgiana decussata* (Whiteaves, 1891)

Cooper *in* Shimer and Shrock, 1944, p. 307, pl. 115, figs. 25–27.

Silurian, Niagaran.

Northwest of Lake Winnipeg, Manitoba, Canada (label on specimen); Grand Rapids of Saskatchewan River, British Columbia, Canada (catalogue); Hall Collection.

Conchidium laqueatum (Conrad, 1855)

Referred specimens: UC 12329, five specimens.

Hall and Clarke, 1893, p. 232, text fig. 168 on p. 234.

Hall and Clarke, 1895a, pl. 65, figs. 3–9.

Cooper *in* Shimer and Shrock, 1944, p. 305, pl. 116, figs. 6, 10–12.

Silurian, Niagaran Limestone.

Hall locality 201, "Delphi, Indiana"; Hall Collection.

Chonchidium? occidentalis (Hall, 1852)

Referred specimens: UC 12443, three specimens.

Hall and Clarke, 1893, pp. 239–240 (and footnote).

Hall and Clarke, 1895a, pl. 67, figs. 1–5.

Silurian, Guelph Dolomite.

Gault, Ontario, Canada; Hall Collection.

Costellirostra peculiaris (Conrad, 1841)

See: *Eatonia peculiaris* (Conrad, 1841).

Costellirostra singularis (Vanuxem, 1842)

See: *Eatonia singularis* (Vanuxem, 1842).

Costispirifer arenosus (Conrad, 1839)

See: *Spirifer arenosus* (Conrad, 1839).

Cranaena calvini (Hall and Whitfield, 1873)

See: *Cranaenella calvini* (Hall and Whitfield, 1873).

Cranaena globosa S. Weller, 1914

Holotype: original designation UC 14249.

S. Weller, 1914, pp. 249–251, pl. 34, figs. 60–62.

Mississippian, Upper Burlington Limestone.

S. Weller, 1914 locality 21, Springfield, Missouri; S. Weller Collection.

Referred specimens: UC 14248, 12 specimens.
S. Weller, 1914, pp. 249–251, pl. 34, figs. 63–66.
Mississippian, Lower Burlington Chert.
Louisiana, Missouri; Gurley Collection.
See also: *Dielasma formosa* (Hall, 1856), UC 12241.

Cranaena hannibalensis Moore, 1928
Holotype, not designated, to be selected from UC 32105.

Referred specimens: UC 32105, three specimens.
Moore, 1928, p. 273, pl. 12, figs. 9, 10.
Branson, 1938b, p. 51.
Mississippian, Hannibal Sandstone.
Louisiana, Missouri; collected by S. Weller.

Cranaena iowensis (Calvin, 1890)
Referred specimen: UC 12227.
Hall and Clarke, 1894, pl. 53, fig. 9.
Hall and Clarke, 1895a, pl. 83, fig. 41.
Devonian, Hamilton Group.
Fayette, Iowa: Hall Collection.

Cranaena occidentalis (S. A. Miller, 1892)
Referred specimens: UC 32112, two specimens.
Moore, 1928, p. 94, pl. 12, figs. 4–6.
Mississippian, Chouteau Bed 2.
Snake Den, near Newark, Missouri; collected by Moore.
See also: *Cranaena* sp.

Cranaena ovalis (S. A. Miller, 1891)
See: *Cryptonella ovalis* S. A. Miller, 1891.

Cranaena romingeri (Hall, 1863)
Referred specimen: UC 12936.
Hall and Clarke, 1893, p. 297.
Hall and Clarke, 1895a, pl. 80, figs. 18, 19.
Devonian, Hamilton Group.
Iowa City, Iowa; Hall Collection.

Cranaena sulcata S. Weller, 1914

Referred specimens: UC 14250, four specimens.
S. Weller, 1914, pp. 251–252, pl. 34, figs. 55–59.

Referred specimens: UC 14251, four specimens.
S. Weller, 1914, pp. 251–252, text fig. 26.

Mississippian, Salem Limestone.

Spergen Hill, Indiana; Gurley Collection.

See also: *Dielasma turgida* (Hall, 1856), UC 14252.

Cranaena sp.

Referred specimens: UC 9716, 11 specimens.
S. Weller, 1914, pl. 34, figs. 52–54.

=*Cranaena occidentalis* (S. A. Miller, 1892)
Moore, 1928, p. 94, pl. 12, figs. 1–3.

Mississippian, Chouteau Limestone.

Pettis County, Missouri; Sampson Collection.

Cranaenella calvini (Hall and Whitfield, 1873)

Referred specimen: UC 25580.
Fenton and Fenton, 1924, pp. 132–133, pl. 25, figs. 23–25.

=*Cranaena calvini* (Hall and Whitfield, 1873)
Belanski, 1929, pp. 5, 17–19.

Devonian, Hackberry Stage, *Spirifer* Zone.

Clay Pit, Rockford, Iowa; Fenton Collection.

Crania albersi S. A. Miller and Faber, 1894

Holotype: original designation UC 8863, an upper valve.
S. A. Miller and Faber, 1894, pp. 154–155, figs. 17–19.
Foerste, 1916, pp. 322–323, pl. 3, figs. 8a, 8b.

Ordovician, Cincinnatian Series, Eden Group, Economy Member.

Cincinnati, Ohio; Faber Collection.

Crania alsepi Tansey, 1922

Holotype: UC 21079, one shell on *Meristella princeps* (Hall, 1857).
Tansey *in* Branson, 1922, p. 182, pl. 44, figs. 9, 10.

Referred specimen: UC 21079, one shell on *Meristella princeps* (Hall, 1857).
Tansey *in* Branson, 1922, p. 182, pl. 44, fig. 11.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Crania alternata James, 1879

Holotype: original designation UC 1557, a single valve.
James, 1879, p. 23.
Foerste, 1916, p. 315, pl. 3, figs. 10A, 10B.

=*Crania scabiosa* Hall, 1866
Bassler, 1915, pp. 285, 287.
Foerste, 1916, p. 312.

Ordovician, Cincinnatian Series, Richmond Group.

Near Blanchester, Ohio; James Collection.

Crania blairi S. A. Miller, 1892

Referred specimens: UC 9675, four specimens.
S. Weller, 1914, pp. 46–47, pl. 1, figs. 34, 35.

Mississippian, Chouteau Limestone.

Pettis County, Missouri; Sampson Collection.

Crania chesterensis S. A. Miller and Gurley, 1894

Holotype, not designated, to be selected from UC 6067.

Referred specimens: UC 6067, seven specimens.
S. A. Miller and Gurley, 1894, pp. 47–48, pl. 3, figs. 24–26.
S. Weller, 1914, p. 45, pl. 1, figs. 27–29.

Mississippian, Chester Group.

Chester, Illinois; Gurley Collection.

Crania crenistriata Hall, 1860

Referred specimen: UC 11894, a single valve.
Hall and Clarke, 1892a, pl. 4H, fig. 12.

=Holotype of *Crania stewarti* Fenton and Fenton, 1924.
Fenton and Fenton, 1924, p. 82, pl. 17, fig. 3.

Devonian, Hackberry Stage, *Spirifer* Zone.

Rockford, Iowa; Hall Collection.

Crania missouriensis S. Weller, 1909

Holotype: original designation UC 13902, one specimen in three pieces.

S. Weller, 1909, p. 292, pl. 12, fig. 1.
S. Weller, 1914, pp. 43–44, pl. 1, fig. 30.
Mississippian, Fern Glen Formation.
Fern Glen, Missouri; collected by S. Weller, 1906.

Crania multipunctata S. A. Miller, 1875
Holotype: original designation UC 8889 (not UC 8869), upper valve.
S. A. Miller, 1875, p. 13, text fig. 4.
S. A. Miller, 1889, p. 341, text fig. 554.
Foerste, 1916, pp. 313–314, pl. 3, figs. 13a, 13b.
=*Crania scabiosa* Hall, 1866
Hall and Clarke, 1892a, p. 148.
Foerste, 1916, p. 312.
Ordovician, Cincinnatian Series, Maysville Group, Corryville Member.
Cincinnati, Ohio; Faber Collection.

Crania pulchella Hall and Clarke, 1892
Holotype: UC 11901, a single valve.
Hall and Clarke, 1892a, p. 180, pl. 4H, fig. 3.
Hall and Clarke, 1895b, p. 335, pl. 3, fig. 14.
Hall and Clarke, 1895c, p. 335, pl. 3, fig. 14.
Devonian, Lower Helderberg Group.
Near Clarksville, New York; Hall Collection.

Crania rowleyi Gurley, 1883
Holotype: UC 6316, a brachial valve.
Gurley, 1883, p. 3.
S. Weller, 1914, p. 46, pl. 1, fig. 39 (not 37).
Mississippian, Kinderhook.
Louisiana, Missouri; Gurley Collection.

Referred specimen: UC 11895, a brachial valve.
Hall and Clarke, 1892a, pl. 4H, fig. 13.
S. Weller, 1914, p. 46, pl. 1, fig. 38.

Referred specimen: UC 13060, a brachial valve.
S. Weller, 1914, p. 46, pl. 1, fig. 37 (not 39).
Mississippian, Louisiana Limestone.
Pike County, Missouri; Hall Collection.

Crania scabiosa Hall, 1866

Referred specimen: UC 11902, two valves.
Hall and Clarke, 1892a, pp. 148–149, pl. 4H, figs. 24, 25.
Foerste, 1916, p. 313.

Ordovician, Cincinnatian Series.

Cincinnati, Ohio; Hall Collection.

See also: *Crania alternata* James, 1879.
Crania multipunctata S. A. Miller, 1875.

Crania socialis Ulrich, 1878

Referred specimen: UC 8868, many valves attached to crinoid stem.
Foerste, 1916, pp. 321–322, pl. 3, figs. 11a, 11b.

Ordovician, Cincinnatian Series, Eden Group.

Cincinnati, Ohio; Faber Collection.

Crania spinigera Hall, 1879

Holotype: UC 11892, an upper valve attached to a brachiopod.
Hall, 1879b, pp. 13–14 [not seen].
Hall 1882, pp. 283–284, pl. 27, fig. 1.
Hall, 1883a, p. 69.
Hall and Clarke, 1892a, pl. 4H, fig. 17.

Silurian, Niagara Group.

Waldron, Indiana; Hall Collection.

Crania stewarti Fenton and Fenton, 1924

Holotype: UC 11894.

See: *Crania crenistriata* Hall, 1860.

Craniella hamiltoniae (Hall, 1860)

Referred specimen: UC 20081, a single valve.
Hall and Clarke, 1892a, pl. 4I, fig. 15.

Devonian, Hamilton Group.

Belloma, New York; Hall Collection.

Referred specimen: UC 23881, a single valve.
Branson and Williams *in* Branson, 1922, p. 133, pl. 35, fig. 5.

Devonian, Grand Tower Limestone.

Little Saline Creek in Missouri; Hall Collection.

Remarks: *C. hamiltoniae* = *Petrocrania hamiltoniae* (Hall, 1860) Rowell *in* Moore, 1965, pp. 290–291.

Craniops cincinnatiensis (Hall, 1871)
See: *Pholidops cincinnatiensis* Hall, 1871.

Craniops ovata (Hall, 1859)
See: *Pholidops ovata* Hall, 1859.

Craniops parvus (Grubbs, 1939)
See: *Pholidops parvus* Grubbs, 1939.

Craniops squamiformis (Hall, 1843)
See: *Pholidops squamiformis* (Hall, 1843).

Crurithyris parva (S. Weller, 1899)
See: *Ambocoelia parva* S. Weller, 1899.

Cryptonella (?) **inconstans** (Herrick, 1888)
See: *Terebratula* (?) *inconstans* Herrick, 1888.

Cryptonella ovalis S. A. Miller, 1891
Holotype, not designated, to be selected from UC 6136.

Referred specimens: UC 6136, three specimens.
S. A. Miller, 1891, pp. 76–77, pl. 13, figs, 1, 2.
S. A. Miller, 1892, pp. 686–687, pl. 13, figs. 1, 2.
=*Cranaena ovalis* (S. A. Miller, 1891)
Cloud, 1942, p. 136.
Devonian, Hamilton Group.
Bunker Hill, Indiana; Gurley Collection.

Cyclocoelia sordida-multiplicata Foerste, 1910
Holotype, not designated, to be selected from UC 130 and UC 8115.

Referred specimens: UC 8115, two specimens.
Foerste, 1910, p. 36, pl. 6, figs. 6A, 7A.
=*Encuclodema sordida-multiplicata* (Foerste, 1910)
Foerste, 1912, p. 139.
= *Plectorthis sordida-multiplicata* (Foerste, 1910)

Bassler, 1915, p. 1000.
= *Plectorthis* (*Encuclodema*) *sordida-multiplicata* (Foerste, 1910) Museum catalogue.
Ordovician, Maysville Group, Fairmount Bed.
Cincinnati, Ohio; Gurley Collection.

Referred specimens: UC 130, three specimens.
Foerste, 1910, p. 36, pl. 6, figs. 6D, 7B.
=*Encuclodema sordida-multiplicata* (Foerste, 1910)
Foerste, 1912, p. 139.
= *Plectorthis sordida-multiplicata* (Foerste, 1910)
Bassler, 1915, p. 1000.
= *Plectorthis* (*Encuclodema*) *sordida-multiplicata* (Foerste, 1910)
Museum catalogue.
Ordovician, Maysville Group, Fairmount Bed.
Cincinnati, Ohio; James Collection.

Cyclorhina nobilis (Hall, 1860)
Referred specimens: UC 12427, four specimens.
Hall and Clarke, 1893, pp. 206–208.
Hall and Clarke, 1894, pp. 830–831, pl. 42, figs. 25–28, 31.
Hall and Clarke, 1895a, pl. 61, figs. 1–10.
Devonian, Hamilton Group.
Hall locality 580, "Thedford (Widder) Ontario, from Rev. Hector Carrie in exchange, 1891"; Hall Collection.
Remarks: *C. nobilis* =*Callipleura nobilis* (Hall, 1860)
Cooper *in* Shimer and Shrock, 1944, p. 311.

Cyclospira bisulcata (Emmons, 1842)
Referred specimen: UC 12397.
Hall and Clarke, 1893, pp. 146–149.
Hall and Clarke, 1895a, pl. 54, figs. 38–40.
Ordovician, Trenton Limestone.
Watertown, New York; Hall Collection.

?Cyclospira inornata (S. Weller, 1903)
See: *Camarella inornata* S. Weller, 1903.

Cyclospira schucherti Roy, 1941
Holotype: original designation P 28282.

Roy, 1941, pp. 103–105, text figs. 70a–d.

Referred specimens: P 28283, 21 specimens and one thin section.
Roy, 1941, pp. 103–105, text fig. 70e.
Ordovician, Richmond.
Silliman's Fossil Mount, Frobisher Bay, Baffin Land; Roy Collection.

Cyrtia inexpectans S. Weller, 1914
Holotype: original designation UC 381, one specimen in three pieces.
S. Weller, 1914, pp. 383–384, pl. 63, figs. 1–4.
Mississippian, Residual Chert.
Springfield, Missouri; S. Weller Collection.

Cyrtina acutirostris (Shumard, 1855)
Referred specimens: UC 6691, 17 specimens.
S. Weller, 1914, pp. 286–288, pl. 35, figs. 6–21.
Mississippian, Louisiana Limestone.
Louisiana, Missouri; Gurley Collection.

Cyrtina acutirostris? (Shumard, 1855)
Referred specimen: UC 6663, a brachial valve.
S. Weller, 1901, p. 167, pl. 14, fig. 5.
Mississippian, Kinderhook Bed no. 5.
Burlington, Iowa; S. Weller Collection.

Cyrtina alpenensis Hall and Clarke, 1894
See: *Cyrtina umbonata* var. *alpenensis* Hall and Clarke, 1894.

Cyrtina burlingtonensis Rowley, 1893
Referred specimens: UC 9676 [not UC 9674], 11 specimens.
S. Weller, 1909, p. 310, pl. 13, figs. 20–22.
S. Weller, 1914, pp. 288–289, pl. 35, figs. 22–26.
Branson, 1938, p. 56, pl. 9, figs. 37–39.
Mississippian, Chouteau Limestone.
Pettis County, Missouri; Sampson Collection.

Referred specimen: UC 13906.
S. Weller, 1909, p. 310, pl. 13, fig. 23.
Mississippian, Fern Glen Formation.

S. Weller, 1909 locality 22, Fern Glen, Missouri; collected by S. Weller, 1906.

Cyrtina dalmani (Hall, 1857)

Referred specimens: UC 21038, three specimens.

Tansey *in* Branson, 1922, pp. 200–201, pl. 51, figs. 30, 31, pl. 52, figs. 1–4.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Cyrtina hamiltonensis (Hall, 1857)

Referred specimen: UC 54004.

Hall, 1867, pp. 268–269, pl. 44, fig. 50.

Hall and Clarke, 1893, p. 46.

Hall and Clarke, 1895a, pl. 28, fig. 31.

Devonian, Corniferous Limestone.

Falls of the Ohio; Hall Collection.

Cyrtina magnaplicata S. Weller, 1903

Holotype, not designated, to be selected from UC 23600.

Referred specimens: UC 23600, two single valves.

S. Weller, 1903, pp. 238–239, pl. 21, figs. 46–49.

Silurian, Decker Ferry.

S. Weller, 1903 locality $2A^4$, William Nearpass Quarry, two miles south of Tri-states, New York in New Jersey; New Jersey Collection.

Cyrtina neogenes Hall and Clarke, 1895

Holotype: UC 12210, a pedicle valve.

Hall and Clarke, 1895a, pl. 84, fig. 41.

Hall and Clarke, 1895b, p. 372, pl. 8, fig. 4.

Hall and Clarke, 1895c, p. 372, pl. 8, fig. 4.

Mississippian, Residuary Chert.

Springfield, Missouri; Hall Collection.

Referred specimens: UC 5638, five specimens.

S. Weller, 1914, pp. 289–291, pl. 35, figs. 32–38.

Mississippian, Osage Residual Chert.

Springfield, Missouri; S. Weller, donor.

See also: *Cyrtina* sp.? UC 54003.

Cyrtina rostrata (Hall, 1857)

Referred specimen: UC 12215, a single valve.
Hall and Clarke, 1893, pp. 44, 46.
Hall and Clarke, 1895a, pl. 28, fig. 6.

Referred specimens: UC 12216, several individuals attached to a brachiopod valve.
Hall and Clarke, 1892a, pp. 156–157, text fig. 31.

Devonian, Oriskany Sandstone.

Hall locality 256, "Andrews Collection opened and labelled, 1888, Cumberland, Maryland"; Hall Collection.

Referred specimen: UC 27495, a brachial valve.
Stewart *in* Branson, 1922, p. 247, pl. 65, fig. 13.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Cyrtina umbonata var. **alpenensis** Hall and Clarke, 1894

Referred specimen: UC 21268.
Hall and Clarke, 1894, pl. 29, fig. 9.
Hall and Clarke, 1895a, p. 362, pl. 28, figs. 16, 17.
Hall and Clarke, 1895b, p. 357, pl. 8, figs. 9, 10.
Hall and Clarke, 1895c, p. 357, pl. 8, figs. 9, 10.
Grabau and Shimer, 1909, p. 313, text figs. 393d–e.

=*Cyrtina alpenensis* Hall and Clarke, 1894.
Cooper *in* Shimer and Shrock, 1944, p. 359.

Devonian, Traverse Group.

Alpena, Michigan; Hall Collection.

Remarks: UC 21268 is one of the specimens originally illustrated by Hall and Clarke, 1894. It is not known whether a holotype has been designated.

Cyrtina sp.

Referred specimen: UC 10443.
S. Weller, 1903, p. 289, pl. 30, figs. 9, 10.

Devonian, Coeymans Limestone.

S. Weller, 1903 locality 15C, near Hainesville, New Jersey; New Jersey Collection.

Cyrtina sp.?

Referred specimen: UC 54003, a pedicle valve.
Hall and Clarke, 1895a, pl. 39, figs. 25–28.

=*Cyrtina neogenes* Hall and Clarke, 1895.
Hall and Clarke, 1895b, p. 372, pl. 8, figs. 5–8.
Hall and Clarke, 1895c, p. 372, pl. 8, figs. 5–8.

Mississippian, Residuary Chert.

Springfield, Missouri; Hall Collection.

Cyrtospirifer? latior (Swallow, 1863)

See: *Spirifer latior* Swallow, 1863.

Dalmanella (Bathycoelia) bellula (Meek, 1873)

See: *Orthis bellula* Meek, 1873.

Dalmanella bellula (Meek, 1873)

See: *Orthis bellula* Meek, 1873.

Dalmanella cyclus (James, 1874)

See: *Orthis cyclus* James, 1874.

Dalmanella diminutiva Roy, 1941

Holotype: original designation P 28263.
Roy, 1941, pp. 91–92, text figs. 4a–c.

Referred specimens: P 28263A, three specimens.
Roy, 1941, pp. 91–92.

Ordovician, Richmond.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; Roy Collection.

Dalmanella elegantula (Dalman, 1828)

Referred specimens: UC 32943, three specimens.
Fisher, 1925, pl. 4, fig. 7.

Silurian, Niagaran Group.

Joliet, Illinois; S. Weller Collection.

Dalmanella emacerata (Hall, 1860)

See: *Orthis cyclus* James, 1874.

Dalmanella lenticularis (Vanuxem, 1867)

Referred specimens: UC 27481, three specimens.
Stewart *in* Branson, 1922, p. 229, pl. 61, figs. 9–11.

Devonian, Upper Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Dalmanella multisecta James

See: *Orthis emacerata* var. *multisecta* Meek, 1873.

Dalmanella oriskania Stewart, 1922

Holotype: UC 27482A, a pedicle valve.
Stewart *in* Branson, 1922, pp. 229–230, pl. 61, fig. 14.

Referred specimens: UC 27482B, two brachial valves.
Stewart *in* Branson, 1922, pp. 229–230, pl. 61, figs. 12, 13.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Dalmanella perelegans (Hall, 1857)

Referred specimens: UC 21059, six specimens.
Tansey *in* Branson, 1922, p. 183, pl. 44, figs. 18–26.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *D. perelegans* = *Isorthis perelegans* (Hall, 1857) Schuchert and Cooper, 1932, pp. 149–150.

Dalmanella planoconvexa (Hall, 1859)

Referred specimen: UC 21047, a dorsal valve.
Tansey *in* Branson, 1922, pp. 182–183, pl. 44, fig. 17.

Referred specimens: UC 21098, two specimens.
Tansey *in* Branson, 1922, pp. 182–183, pl. 44, figs. 12–16.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *D. planoconvexa* = *Platyorthis planoconvexa* (Hall, 1859) Schuchert and Cooper, 1932, p. 135.

Dalmanella postelegantula S. Weller, 1903

Holotype, not designated, to be selected from UC 10402.

Referred specimens: UC 10402, three single valves.
S. Weller, 1903, p. 232, pl. 20, figs. 21, 23, 24.

Silurian, Decker Ferry.

S. Weller, 1903 locality 8A, "on the next farm south of that upon which the William Nearpass Quarry is located," two miles south of Tri-States, New York in New Jersey; New Jersey Collection.

Dalmanella quadrans (Hall, 1859)

Referred specimens: UC 21054, three specimens.
Tansey *in* Branson, 1922, p. 183, pl. 44, figs. 27–29.

Referred specimens: UC 21097, two specimens.
Tansey *in* Branson, 1922, p. 183, pl. 44, figs. 30, 31.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *D. quadrans* =*Levenea quadrans* (Hall, 1859)
Schuchert and Cooper, 1932, p. 123.

Dalmanella sillimani Roy, 1941

Holotype: original designation P 28264.
Roy, 1941, pp. 92–93, text figs. 55a–d.

Referred specimens: P 28265, four specimens.
Roy, 1941, pp. 92–93.

Ordovician, Richmond Group.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; collected by Roy, 1927.

Dalmanella testudinaria (Dalman, 1828)

See: *Orthis* (*Dalmanella*) *testudinaria* Dalman, 1828.

Dalmanella (?) sp.

Referred specimen: P 28266, a dorsal valve.
Roy, 1941, p. 93, text fig. 56.

Ordovician, Richmond Group.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; collected by Roy, 1927.

Delthyris clarksvillensis (Winchell, 1865)

Referred specimens: UC 6699, two specimens.
S. Weller, 1914, pp. 301–302, pl. 36, figs. 6, 7.

Mississippian, Louisiana Limestone.

Louisiana, Missouri; Gurley Collection.

Remarks: *D. clarksvillensis* = *Tylothyris clarksvillensis* (Winchell, 1865)
Carter, 1967, p. 360.

See also: *Delthyris missouriensis* S. Weller, 1906.

Delthyris missouriensis Tansey, 1922 [not S. Weller, 1906]

Holotype, not designated, to be selected from UC 21078 and UC 21102.

Referred specimen: UC 21078.
Tansey *in* Branson, 1922, p. 199, pl. 51, fig. 3.

Referred specimens: UC 21102, six specimens.
Tansey *in* Branson, 1922, p. 199, pl. 51, figs. 1–8, 10, 11.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Delthyris missouriensis S. Weller, 1906 [not Tansey, 1922]

Holotype, not designated, to be selected from UC 11351.

Referred specimens: UC 11351, nine specimens.
S. Weller, 1906, pp. 445–446, pl. 6, figs. 23–26.
S. Weller, 1914, pp. 302–303, pl. 36, figs. 11–14.

= *Delthyris clarksvillensis* (Winchell, 1865)
Branson, 1938a, p. 137, pl. 16, figs. 9, 10.

= *Tylothyris missouriensis* (S. Weller, 1906)
Carter, 1967, p. 362 [Branson, 1938a, pl. 16, fig. 10].

Mississippian, Glen Park Limestone.

Glen Park, Missouri; collected by S. Weller, 1902.

Remarks: *D. clarksvillensis* = *Tylothyris clarksvillensis* (Winchell, 1865)
Carter, 1967, p. 362 [Branson, 1938, pl. 16, fig. 9].

Referred specimens: UC 14276, two specimens.
S. Weller, 1914, pp. 302–303, pl. 36, figs. 9, 10.

= *Delthyris clarksvillensis* (Winchell, 1865)
Branson, 1938a, p. 137.

= *Tylothyris missouriensis* (S. Weller, 1906).
Carter, 1967, p. 362.

Mississippian, Hamburg Oolite.

Hamburg, Calhoun County, Illinois; Weller Collection.

Delthyris novamexicana (S. A. Miller, 1881)

See: *Spirifer piersonensis* Moore, 1928.
Spiriferina magnicostatus S. Weller, 1909, UC 4690.

Delthyris octocostatus (Hall, 1857)

Referred specimen: UC 21103.

Tansey *in* Branson, 1922, pp. 199–200, pl. 51, figs. 28, 29.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Delthyris perlamellosa (Hall, 1857)

Referred specimen: UC 21101.

Tansey *in* Branson, 1922, p. 199, pl. 50, figs. 41–49.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Delthyris suborbicularis S. Weller, 1906

Holotype: UC 11352A, a pedicle valve.

S. Weller, 1906, pp. 446–447, pl. 6, figs. 27, 28.

S. Weller, 1914, pp. 303–304, pl. 36, fig. 8.

not Branson, 1938a, pp. 136–137, pl. 16, figs. 12, 13 [= *Tylothyris missouriensis* (S. Weller, 1906); Carter, 1967, p. 362].

Referred specimen: UC 11352, a pedicle valve.

S. Weller, 1906, pp. 446–447.

S. Weller, 1914, pp. 303–304.

not Branson, 1938a, pp. 136–137 [= *Tylothyris missouriensis* (S. Weller, 1906); Carter, 1967, p. 362].

Mississippian, Glen Park Limestone.

S. Weller, locality 11, Glen Park, Missouri; collected by S. Weller, 1904.

Derbya affinis Hall and Clarke, 1892

Holotype: UC 12233B.

Hall and Clarke, 1892a, pp. 349–350.
Hall and Clarke, 1895b, p. 349, pl. 5, figs. 10, 11.
Hall and Clarke, 1895c, p. 349, pl. 5, figs. 10, 11.

= *Derbya cymbula* Hall and Clarke, 1892.

Hall and Clarke, 1892a, pl. 11B, figs. 4, 5.
Beede, 1900, pp. 60–61.
Dunbar and Condra, 1932, pp. 99–101.

Pennsylvanian.

Near Kansas City, Missouri.

Remarks: UC 12233B stored with UC 12233A holotype of *Derbya cymbula* Hall and Clarke, 1892.

Derbya bennetti Hall and Clarke, 1892

Holotype, not designated, to be selected from UC 12231.

Referred specimens: UC 12231, two specimens.

Hall and Clarke, 1892a, p. 348, pl. 11A, figs. 34–39.
Hall and Clarke, 1892b, p. 347, pl. 5, figs. 5–8.
Hall and Clarke, 1895b, p. 347, pl. 5, figs. 3–8.
Hall and Clarke, 1895c, p. 347, pl. 5, figs. 3–8.
Beede, 1900, p. 59, pl. 8, figs. 8–8c.

Pennsylvanian.

Near Kansas City, Missouri; Beede, 1900, received correction of locality from Mr. Bennett, collector, as near St. Joseph, Missouri; Hall Collection.

Derbya bennetti var. **broadheadi** Hall and Clarke, 1892

See: *Derbya broadheadi* Hall and Clarke, 1892.

Derbya broadheadi Hall and Clarke, 1892

Holotype: UC 12232.

Hall and Clarke, 1892a, p. 347, pl. 11A, figs. 23, 24.
Hall and Clarke, 1895b, p. 346, pl. 5, figs. 15, 16.
Hall and Clarke, 1895c, p. 346, pl. 5, figs. 15, 16.

= *Derbya bennetti* var. *broadheadi* Hall and Clarke, 1892

Dunbar and Condra, 1932, pp. 89–90, pl. 5, figs. 5a–c.

Pennsylvanian.

Near Kansas City, Missouri; Hall Collection.

Derbya (?) **costatula** Hall and Clarke, 1892

Holotype: UC 14498A.
Hall and Clarke, 1892a, pp. 346–347, pl. 11B, fig. 16.
Hall and Clarke, 1895b, p. 346, pl. 5, fig. 9.
Hall and Clarke, 1895c, p. 346, pl. 5, fig. 9.

=*Schuchertella costatula* (Hall and Clarke, 1892)
S. Weller, 1914, pp. 57–58, pl. 2, figs. 19, 20.

Mississippian, Chester Group.

Crittenden County, Kentucky; Hall Collection.

Derbya crassa (Meek and Hayden, 1858)

Referred specimens: UC 14097, a pedicle and a brachial valve.
Hall and Clarke, 1892a, pl. 20, figs. 12, 13.
Hall and Clarke, 1892b, pl. 17, figs. 2, 3.

Pennsylvanian.

Near Kansas City, Missouri; Hall Collection.

Referred specimen: UC 22298, a pedicle valve.
Hall and Clarke, 1892a, pl. 11A, fig. 32.
Hall and Clarke, 1892b, pl. 17, fig. 4.

=*Orthotetes crassa* (Meek and Hayden, 1858) Museum catalogue.

Pennsylvanian.

Winterset, Iowa; Hall Collection.

Derbya cymbula Hall and Clarke, 1892

Holotype: UC 12233A.
Hall and Clarke, 1892a, pp. 348–349, pl. 11B, figs. 2, 3.
Hall and Clarke, 1895b, p. 348, pl. 6, figs. 1, 2.
Hall and Clarke, 1895c, p. 348, pl. 6, figs. 1, 2.
Beede, 1900, pp. 60–61.
Dunbar and Condra, 1932, pp. 97–101, pl. 8, figs. 1a–b.

Pennsylvanian.

Near Kansas City, Missouri; Hall Collection.

See also: *Derbya affinis* Hall and Clarke, 1892.

Derbya robusta? (Hall, 1858)

Referred specimen: UC 14093, a pedicle valve.
Hall and Clarke, 1892a, pl. 11B, fig. 8.

Pennsylvanian.
Near Kansas City, Missouri; Hall Collection.

Referred specimen: UC 22297, a brachial valve.
Hall and Clarke, 1892a, pl. 11B, fig. 7.
=*Orthotetes robusta* (Hall, 1858)
Mather, 1915, pp. 146–147.
Pennsylvanian.
Winterset, Iowa; Hall Collection.

Derbya ruginosa Hall and Clarke, 1892
Holotype: UC 11912.
Hall and Clarke, 1892a, p. 346, pl. 11A, figs. 25–27.
Hall and Clarke, 1895b, p. 345, pl. 5, figs. 12–14.
Hall and Clarke, 1895c, p. 345, pl. 5, figs. 12–14.
=*Streptorhynchus ruginosum* (Hall and Clarke, 1892)
S. Weller, 1914, pp. 71–73, pl. 5, figs. 1–5.
Mississippian, St. Louis Chert.
Providence, Indiana; Hall Collection.

Derbya sp.
Referred specimen: UC 14092, a brachial valve.
Hall and Clarke, 1892a, pl. 11B, fig. 1.
Pennsylvanian.
Kansas City, Missouri; Hall Collection.

Devonalosia radicans (Winchell, 1866)
See: *Strophalosia radicans* (Winchell, 1866).

?Devonalosia truncata (Hall, 1857)
See: *Strophalosia truncata* (Hall, 1857).

Devonochonetes coronatus (Hall, 1857)
See: *Chonetes coronatus* Hall, 1857.

Diaphragmus elegans (Norwood and Pratten, 1855)
Referred specimen: UC 14370.
S. Weller, 1914, pp. 136–138, pl. 12, figs. 8–12.
Mississippian, Kaskaskia Formation.

Chester, Illinois; Van Horne Collection.
See also: *Productus cestriensis* Worthen, 1860.

Dicamara scalprum (F. Roemer, 1844)
Referred specimens: UC 11960, four specimens.
Hall and Clarke, 1893, pp. 71–73.
Hall and Clarke, 1895a, pl. 42, figs. 13, 14.
Devonian.
Hartz Mountain, Germany; Hall Collection.

Dicellomus politus (Hall, 1861)
See: *Obolella polita* (Hall, 1861).

Dicoelosia biloba (Linné, 1767)
See: *Bilobites biloba* (Linné, 1767).

Dictyoclostus arcuatus (Hall, 1858)
See: *Productus arcuatus* Hall, 1858.

Dictyoclostus burlingtonensis (Hall, 1858)
See: *Productus burlingtonensis* Hall, 1858.

Dictyoclostus calhounensis (Moore, 1928)
See: *Productus calhounensis* Moore, 1928.

Dictyoclostus cherokeensis (Drake, 1898)
See: *Productus cherokeensis* Drake, 1898.

Dictyoclostus crawfordsvillensis (S. Weller, 1914)
See: *Productus crawfordsvillensis* S. Weller, 1914.

Dictyoclostus curtirostris (Winchell, 1865)
See: *Productus curtirostris* Winchell, 1865.

Dictyoclostus fernglenensis (S. Weller, 1909)
See: *Productus fernglenensis* S. Weller, 1909.

Dictyoclostus inflatus (McChesney, 1860)
See: *Productus inflatus* McChesney, 1860.

Dictyoclostus mesialis (Hall, 1858)
See: *Productus mesialis* Hall, 1858.

Dictyoclostus mesicostalis (S. Weller, 1914)
See: *Productus mesicostalis* S. Weller, 1914.

Dictyoclostus parvus (Meek and Worthen, 1861)
See: *Productus parvus* Meek and Worthen, 1861.

Dictyoclostus scitulus (Meek and Worthen, 1860)
See: *Productus scitulus* Meek and Worthen, 1860.

Dictyoclostus sedaliensis (S. Weller, 1914)
See: *Productus sedaliensis* S. Weller, 1914.

Dictyoclostus semireticulatus (Martin, 1809)
See: *Productus semireticulatus* Martin, 1809.

Dictyonella reticulata (Hall, 1863)
See: *Eichwaldia reticulata* (Hall, 1863).

Dielasma arkansanum S. Weller, 1914
Holotype, not designated, to be selected from UC 14255.

Referred specimens: UC 14255, nine specimens.
S. Weller, 1914, pp. 269–270, pl. 31, figs. 41–44.

Mississippian Limestone.

Washington County, Arkansas; A. H. Purdue, donor.

Referred specimen: UC 16078.
Mather, 1915, p. 180, pl. 11, figs. 12–12b.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 134, near Fayetteville, Arkansas; Mather, donor.

Dielasma bilobatum Mather, 1915
Holotype, not designated, to be selected from UC 16077.

Referred specimens: UC 16077, two specimens.
Mather, 1915, pp. 179–180, pl. 11, figs. 14–15b.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 134, near Fayetteville, Arkansas; Mather, donor.

Dielasma bovidens (Morton, 1836)

Referred specimen: UC 12235.
Hall and Clarke, 1893, pp. 294–296.
Hall and Clarke, 1894, pl. 53, figs. 21–23.
Hall and Clarke, 1895a, pl. 81, figs. 33–35.
Mississippian, Upper Carboniferous Limestone.
Harrison County, Missouri; Hall Collection.

Referred specimen: UC 12236.
Hall and Clarke, 1893, pp. 294–296.
Hall and Clarke, 1894, pl. 53, figs. 24, 25.
Hall and Clarke, 1895a, pl. 81, figs. 31, 32.
Mississippian, Upper Carboniferous Limestone.
Southern Indiana; Hall Collection.

Dielasma calvini (Hall and Whitfield, 1873)

Referred specimen: UC 12234.
Hall and Clarke, 1895a, pl. 80, figs. 20–22.
Devonian, Hackerry Stage.
Hackberry Grove, Iowa; Hall Collection.

Dielasma chouteauensis S. Weller, 1914

=*Beecheria chouteauensis* (S. Weller, 1914)
Carter, 1967, p. 438.
Holotype, not designated, to be selected from UC 8547, UC 9666, UC 9703, and UC 12237.

Referred specimens: UC 8547, two specimens.
S. Weller, 1914, pp. 257–259, pl. 32, figs. 13–17.
Branson, 1938a, pp. 55–56.
Mississippian, Pierson Limestone.
Near Springfield, Missouri; S. Weller Collection.

Referred specimens: UC 9666, three specimens.
S. Weller, 1914, pp. 257–259, pl. 32, figs. 6–12.
Branson, 1938a, pp. 55–56.
Mississippian, Chouteau Limestone.
Chouteau Springs, Missouri; Sampson Collection.

Referred specimens: UC 9703, 12 specimens.
S. Weller, 1914, pp. 257–259, pl. 32, fig. 5.
Branson, 1938a, pp. 55–56.
Mississippian, Chouteau Limestone.
Pettis County, Missouri; Sampson Collection.

Referred specimen: UC 12237.
See: *Dielasma formosa* (Hall, 1856).

Dielasma compressa Snider, 1915
Holotype: original designation UC 17262A.
Snider, 1915, pp. 87–88, pl. 4, figs. 27–29.

Referred specimen: UC 17262B.
Snider, 1915, pp. 87–88.
Mississippian, Fayetteville Formation.
Snider, 1915 locality F 10, southeast of Chouteau, Oklahoma; Snider, donor.

Dielasma fernglenensis S. Weller, 1909
Holotype: original designation UC 4688.
S. Weller, 1909, p. 318, pl. 14, fig. 7.
S. Weller, 1914, pp. 259–260, pl. 33, figs. 4, 5.
Mississippian, Fern Glen.
S. Weller, 1909 locality 9, near Kimmswick, Missouri; S. Weller Collection.

Dielasma formosa (Hall, 1856)
Referred specimen: UC 12237.
Hall and Clarke, 1893, p. 296.
Hall and Clarke, 1895a, pl. 81, fig. 24.
="cotype" of *Dielasma chouteauensis* S. Weller, 1914
S. Weller, 1914, pp. 257–259, pl. 32, figs. 1–4.
Branson, 1938a, pp. 55–56.
=*Beecheria chouteauensis* (S. Weller, 1914)
Carter, 1967, p. 438.
Mississippian, Chouteau Limestone.
Missouri; Hall Collection.

Referred specimens: UC 12241, two specimens.

Hall and Clarke, 1893, p. 296.
Hall and Clarke, 1895a, pl. 81, figs. 14, 15.
=*Cranaena globosa* S. Weller, 1914
S. Weller, 1914, pp. 249–251.

Referred specimen: UC 12242, a brachial valve.
Hall and Clarke, 1893, p. 296.
Hall and Clarke, 1894, pl. 53, fig. 19.
Hall and Clarke, 1895a, pl. 81, fig. 17.
=*Dielasma sinuata* S. Weller, 1914
S. Weller, 1914, p. 262.
Mississippian, Residuary Chert.
Springfield, Missouri; Hall Collection.

Referred specimen: UC 12244.
Hall and Clarke, 1893, p. 296.
Hall and Clarke, 1895a, pl. 81, figs. 18, 19.
Mississippian, St. Louis Group.
Locality unknown; Hall Collection.

Dielasma formosum (Hall, 1856)
Referred specimen: UC 449.
S. Weller, 1914, pp. 265–267, pl. 33, figs. 15–17.
Cooper *in* Shimer and Shrock, 1944, p. 364, pl. 43, figs. 11–13.
Mississippian, Salem Limestone.
Spergen Hill, Indiana; James Collection.
See also: *Dielasma obovata* Hall and Clarke, 1895, UC 12238.
Dielasma rowleyi (Worthen, 1884), UC 12243.

Dielasma illinoiense S. Weller, 1914
Holotype: original designation UC 14770A.
S. Weller, 1914, pp. 267–268, pl. 33, figs. 18–20.
Cooper *in* Shimer and Shrock, 1944, p. 364, pl. 143, figs. 9, 10.

Referred specimens: UC 14770, four specimens.
S. Weller, 1914, pp. 267–268.
Mississippian, Paint Creek Formation.
Near Modoc, Randolph County, Illinois; collected by S. Weller, 1907.

Dielasma inflata S. Weller, 1914
Holotype: original designation UC 14235.

S. Weller, 1914, pp. 264–265, pl. 52, figs. 18–21.
Mississippian, Salem Limestone.
Barrett's Station, Missouri; Van Horne Collection.

Referred specimens: UC 7772, six specimens.
S. Weller, 1914, pp. 264–265, pl. 32, figs. 22–24.

Referred specimens: UC 7773, two specimens.
S. Weller, 1914, pp. 264–265, pl. 32, figs. 25–28.
Mississippian, Salem Limestone.
Spergen Hill, Indiana; Gurley Collection.
See also: *Dielasma turgida* (Hall, 1856) UC 12239.

Dielasma obovata Hall and Clarke, 1895
Holotype: UC 12238.
Hall and Clarke, 1895a, pl. 81, figs. 38–40.
Hall and Clarke, 1895b, p. 272, pl. 14, figs. 12–14.
Hall and Clarke, 1895c, p. 272, pl. 14, figs. 12–14.
= *Dielasma formosum* (Hall, 1856)
S. Weller, 1914, pp. 265–267, pl. 33, figs. 12–14.
Mississippian, Carboniferous Limestone.
Kentucky; Hall Collection.

Dielasma osceolensis S. Weller, 1914
Holotype: original designation UC 7943.
S. Weller, 1914, pp. 260–261, pl. 33, figs. 1–3.
Mississippian, Lower Burlington Limestone.
Osceola, Missouri; collected by S. Weller, 1902.
Remarks: *D. osceolensis* =*Beecheria osceolensis* (S. Weller, 1914) Carter, 1967, p. 439.

Dielasma rowleyi (Worthen, 1884)
Referred specimen: UC 12243.
Hall and Clarke, 1893, p. 296.
Hall and Clarke, 1894, pl. 53, fig. 20.
Hall and Clarke, 1895a, pl. 81, figs. 27, 28.
= *Dielasma formosum*? (Hall, 1856) museum catalogue.
Mississippian, Salem Limestone [catalogue]; Chouteau Limestone [published].
Spergen Hill, Indiana [catalogue]; Graydon Springs, Missouri [published]; Hall Collection.

Dielasma shumardianum (S. A. Miller, 1883)

Referred specimen: UC 7770.
S. Weller, 1914, pp. 268–269, pl. 31, figs. 25–27.

Mississippian, Kaskaskia Group

Big Hill, Jackson County, Illinois; Gurley Collection.

Dielasma sinuata S. Weller, 1914

Holotype, not designated, to be selected from UC 334, UC 14247, and UC 6315.

Referred specimens: UC 334, eight specimens.
S. Weller, 1914, pp. 262–263, pl. 31, figs. 28–33.

Referred specimen: UC 14247.
S. Weller, 1914, pp. 262–263.

Mississippian, Residuary Chert.

Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 6315.

See: *Dielasma formosa* (Hall, 1856) UC 12242.
Lingula crawfordsvillensis Gurley, 1883.

Dielasma subspatulatum S. Weller, 1914

Holotype, not designated, to be selected from UC 14254.

Referred specimens: UC 14254, nine specimens.
S. Weller, 1914, pp. 270–271, pl. 33, figs. 6–11.

Mississippian Limestone.

Washington County, Arkansas; A. H. Purdue, donor.

Referred specimens: UC 16073, three specimens.
Mather, 1915, pp. 178–179, pl. 11, figs. 9–11b.

Pennsylvanian, Hale Formation.

Mather, 1915 station 137, East Mountain, Fayetteville, Arkansas; Mather, donor.

Referred specimen: UC 16074.
Mather, 1915, pp. 178–179, pl. 11, figs. 6–6b.

Pennsylvanian, Morrow Formation [catalogue]; Hale Formation [published].

Mather, 1915 station 304, Gore, Oklahoma [catalogue]; Station 136, East Mountain, Fayetteville, Arkansas [published]; Mather, donor.

Referred specimens: UC 16075, two specimens.
Mather, 1915, pp. 178–179, pl. 11, figs. 7–8b.
Pennsylvanian, Brentwood Limestone.
Mather, 1915 station 150, near Fayetteville, Arkansas; Mather, donor.

Referred specimens: UC 16076, four specimens.
Mather, 1915, pp. 178–179, pl. 11, figs. 2–5b.
Pennsylvanian, Brentwood Limestone.
Mather, 1915 station 134, near Fayetteville, Arkansas; Mather, donor.

Dielasma turgida (Hall, 1856)

Referred specimen UC 12239.
Hall and Clarke, 1894, pl. 53, fig. 12.
Hall and Clarke, 1895a, pl. 81, fig. 4.
=*Dielasma inflata* S. Weller, 1914
S. Weller, 1914, p. 264.
Mississippian, Salem Limestone.
Washington County, Indiana; Hall Collection.

Referred specimen: UC 12240.
Hall and Clarke, 1894, pl. 53, fig. 11.
Hall and Clarke, 1895a, pl. 81, figs. 5, 6.
=*Girtyella turgida* (Hall, 1856)
S. Weller, 1914, p. 273.
Mississippian, Chester Limestone.
Spencer County, Indiana; Hall Collection.

Referred specimen: UC 14252.
Hall and Clarke, 1895a, pl. 81, figs. 1–3.
=*Cranaena sulcata* S. Weller, 1914
S. Weller, 1914, pp. 251–252.
Mississippian, Salem Limestone.
Washington County, Indiana; Hall Collection.

Dielasma turgida var. **elongata** S. Weller, 1897

Holotype: UC 4959.
S. Weller, 1897, p. 620, pl. 19, fig. 6.
=*Girtyella brevilobata* (Swallow, 1863)
S. Weller, 1914, pp. 278–279, pl. 34, figs. 40, 41.

Mississippian, Batesville Sandstone.

S. Weller locality 2A, Batesville, Arkansas; collected by S. Weller, 1896.

Dielasma sp.

Referred specimen: UC 5956, a pedicle valve.
S. Weller, 1899, p. 22, pl. 4, fig. 9.

Mississippian, Northview Sandstone.

S. Weller locality 1A, Northview, Missouri; collected by S. Weller, 1898.

Referred specimen: UC 12246.
Hall and Clarke, 1893, p. 301, text fig. 226.

Mississippian, Residuary Chert.

Indiana; Hall Collection.

Dielasmella calhounensis S. Weller, 1914

Holotype, not designated, to be selected from UC 14246.

Referred specimens: UC 14246, seven specimens.
S. Weller, 1914, pp. 281–282, pl. 31, figs. 1–4.

Mississippian, Hamburg Oolite.

Hamburg, Calhoun County, Illinois; Weller Collection.

Dielasmella compressa (S. Weller, 1906)

"Cotypes": UC 11347.

See: *Eunella compressa* S. Weller, 1906.

Dimegelasma neglecta (Hall, 1858)

See: *Spiriferella neglecta* (Hall, 1858).

Dinorthis deflecta gibbosa C. L. Fenton, 1928

Holotype: original designation UC 33402, a pedicle valve.
C. L. Fenton, 1928a, pp. 131–132, pl. 5, figs. 2, 3.

Referred specimen: UC 33403, a brachial valve.
C. L. Fenton, 1928a, pp. 131–132, pl. 5, figs. 6, 7.

Referred specimen: UC 33406, a pedicle valve.
C. L. Fenton, 1928a, pp. 131–132, pl. 5, figs. 4, 5.

Referred specimen: UC 33407, a brachial valve.
C. L. Fenton, 1928a, pp. 131–132, pl. 5, figs. 8, 9.

Referred specimens: UC 33404, a brachial valve; UC 33405, a brachial valve.

C. L. Fenton, 1928a, pp. 131–132.

Ordovician, Plattin Formation.

South Beckett Hill, Ste. Genevieve County, Missouri; Fenton Collection.

Dinorthis loricula (Hall and Clarke, 1892)

See: *Orthis* (*Plaesiomys*) *loricula* Hall and Clarke, 1892.

Dinorthis (Plaesiomys) subquadrata (Hall, 1847)

See: *Orthis* (*Plaesiomys*) *subquadrata* Hall, 1847.

Dinorthis subquadrata (Hall, 1847)

See: *Orthis* (*Plaesiomys*) *subquadrata* Hall, 1847.

Dinorthis (Valcourea) deflecta (Conrad, 1843)

See: *Orthis* (*Plaesiomys*) *loricula* Hall and Clarke, 1892.

Discina illinoisensis S. A. Miller and Gurley, 1894

Holotype, not designated, to be selected from UC 6291.

Referred specimens: UC 6291, a dorsal and a ventral valve.

S. A. Miller and Gurley, 1894, pp. 70–71, pl. 7, figs. 2, 3.

=*Orbiculoidea illinoisensis* (S. A. Miller and Gurley, 1894)

S. Weller, 1898, p. 389.

Pennsylvanian.

Knox County, Illinois; Gurley Collection.

Referred specimens: UC 6290, two dorsal valves.

S. A. Miller and Gurley, 1894, pp. 70–71, pl. 7, figs. 4, 5.

=*Orbiculoidea illinoisensis* (S. A. Miller and Gurley, 1894)

S. Weller, 1898, p. 389.

Pennsylvanian.

Edwards Station, Peoria County, Illinois; Gurley Collection.

Discina keokuk Gurley, 1884

Holotype, not designated, to be selected from UC 6331.

Referred specimens: UC 6331, a brachial and a pedicle valve.

Gurley, 1884, pp. 6–7.

=*Orbiculoidea keokuk* (Gurley, 1884)
S. Weller, 1914, p. 41, pl. 1, figs. 14, 15.

Mississippian, Keokuk Group.

Crawfordsville, Indiana; Gurley Collection.

Discina munda S. A. Miller and Gurley, 1894

Holotype: original designation UC 6186, a dorsal valve.
S. A. Miller and Gurley, 1894, p. 71, pl. 7, figs. 6, 7.

=*Orbiculoidea munda* (S. A. Miller and Gurley, 1894)
S. Weller, 1898, p. 290.

Pennsylvanian.

Kansas City, Missouri; Gurley Collection.

Discina sampsoni S. A. Miller, 1891

Referred specimen: UC 6962, a brachial valve.
S. A. Miller, 1891, p. 80, pl. 13, fig. 10.
S. A. Miller, 1892, p. 690, pl. 13, fig. 10.

=*Orbiculoidea sampsoni* (S. A. Miller, 1891)
S. Weller, 1898, p. 390.
S. Weller, 1914, p. 40, pl. 1, fig. 21.

Branson, 1938a, pp. 22–23, pl. 1, fig. 10.

Mississippian, Chouteau Limestone.

Sedalia, Missouri; Sampson Collection.

Remarks: UC 6962 is one of the specimens originally figured by S. A. Miller, 1891. The other specimens are in Univ. Cincinnati no. 3920.

Discinopsis guliemi (Matthew, 1886)

Referred specimens: UC 11926, two specimens.
Hall and Clarke, 1892a, pp. 105–106, pl. 3, figs. 20–22.
Hall and Clarke, 1892b, pl. 3, figs. 20, 21.
Walcott, 1912, pp. 720–721, pl. 82, figs. 5–5b.

Cambrian, St. John Group.

Portland, New Brunswick; Hall Collection.

Remarks: The figures published by Hall and Clarke, 1892 and Walcott, 1912 are redrawn from Matthew's figures and type material but UC 11926 cannot be identified as Matthew's figures.

Dolerorthis flabellites (Foerste, 1889)
See: *Orthis flabellites* Foerste, 1889.

Dorsisinus louisianensis (S. Weller, 1914)
See: *Centronella louisianensis* S. Weller, 1914.

Douvillina arcuata var. **maxima** C. L. Fenton, 1918
Holotype, not designated, to be selected from UC 26057.

Referred specimens: UC 26057, two specimens.
C. L. Fenton, 1918, pp. 215–216, pl. 6, figs. 23–25.
=*Douvillina maxima* C. L. Fenton, 1918
Fenton and Fenton, 1924, pp. 89–90, pl. 20, figs. 12, 13.
Devonian, Hackberry Stage, Spirifer Zone.
Hackberry Grove, Iowa; Fenton Collection.

Douvillina maxima C. L. Fenton, 1918
See: *Douvillina arcuata* var. *maxima* C. L. Fenton, 1918.

Eatonia coulteri S. A. Miller and Gurley, 1894
Holotype: UC 6064.
S. A. Miller and Gurley, 1894, p. 72, pl. 7, figs. 8–11.
Devonian, Oriskany Group.
Jackson County, Illinois; Gurley Collection.

Eatonia peculiaris (Conrad, 1841)
Referred specimens: UC 27467, three specimens.
Stewart *in* Branson, 1922, pp. 237–238, pl. 62, figs. 12–16.
Devonian, Little Saline Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.
Remarks: *E. peculiaris* =*Costellirostra peculiaris* (Conrad, 1841) Cooper, 1942, p. 231.

Eatonia plicata Stewart, 1922
Holotype: original designation UC 27466A, a pedicle valve.
Stewart *in* Branson, 1922, pp. 238–239, pl. 63, fig. 2.

Referred specimens: UC 27466, two single valves.
Stewart *in* Branson, 1922, pp. 238–239, pl. 63, figs. 1, 3, 4.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Eatonia singularis (Vanuxem, 1842)

Referred specimen: UC 21076.

Tansey *in* Branson, 1922, pp. 192–193, pl. 49, figs. 1, 2.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *E. singularis* = *Costellirostra singularis* (Vanuxem, 1842) Cooper, 1942, p. 231.

Eatonia sinuata Hall, 1857

Referred specimens: UC 12429, two specimens.

Hall and Clarke, 1893, p. 206.

Hall and Clarke, 1895a, pl. 61, figs. 36, 38.

Devonian, Helderberg Group.

Cumberland, Maryland; Hall Collection.

Eatonia whitfieldi Hall, 1859

Referred specimen: UC 12428.

Hall and Clarke, 1893, p. 206.

Hall and Clarke, 1895a, pl. 61, figs. 27, 28.

Devonian, Oriskany Sandstone.

Cumberland, Maryland; Hall Collection.

Eccentricosta jerseyensis (S. Weller, 1900)

See: *Chonetes jerseyensis* S. Weller, 1900.

Eccentricosta jerseyensis var. **nondivergens** (Swartz, 1956)

See: *Chonetes jerseyensis* S. Weller, 1900.

Echinoconchus alternatus (Norwood and Pratten, 1855)

Referred specimens: UC 14318, two specimens.

S. Weller, 1914, pp. 138–140, pl. 17, figs. 1–4.

Cooper *in* Shimer and Shrock, 1944, p. 350, pl. 137, figs. 10, 11.

= *Pustula alternata* (Norwood and Pratten, 1855)

Snider, 1915, p. 82.

Referred specimen: UC 14319, a pedicle valve.
S. Weller, 1914, pp. 138–140, pl. 17, figs. 6, 7.
= *Pustula alternata* (Norwood and Pratten, 1855)
Snider, 1915, p. 82.
Mississippian, Keokuk Limestone.
Warsaw, Illinois; Gurley Collection.

Referred specimens: UC 47214, two brachial valves.
Easton, 1942, pl. 5, fig. 11.
Mississippian, Pitkin Limestone.
Easton locality 29, north of Cane Hill, Arkansas; Easton Collection.
See also: *Pustula alternata* (Norwood and Pratten, 1855).

Echinoconchus biseriatus (Hall, 1858)
Referred specimens: UC 14315, six specimens.
S. Weller, 1914, pp. 141–142, pl. 17, figs. 10–13.
Sutton, 1938, p. 556, pl. 66, figs. 5–7.
Cooper *in* Shimer and Shrock, 1944, p. 350, pl. 137, figs. 6–8.
= *Pustula biseriata* (Norwood and Pratten, 1855)
Snider, 1915, pp. 82–83.
Mississippian, Salem Limestone.
Hall locality 360a, "Spergen Hill, Indiana, Herzer Collection"; Hall Collection.

Referred specimens: UC 14766, two brachial valves.
S. Weller, 1914, pp. 141–142, pl. 17, figs. 14, 15.
Sutton, 1938, p. 556.
Cooper *in* Shimer and Shrock, 1944, p. 350, pl. 137, fig. 9.
= *Pustula biseriata* (Norwood and Pratten, 1855)
Snider, 1915, pp. 82–83.
Mississippian, Salem Limestone.
Hull's Hollow, near Alton, Illinois; Van Horne Collection.
Remarks: *E. biseriatus* = ?*Stegacanthia biseriata* (Hall, 1858)
Muir-Wood and Cooper, 1960, p. 199.

Echinoconchus genevievensis S. Weller, 1914
Holotype, not designated, to be selected from UC 14767 and UC 14768.

Referred specimens: UC 14767, two pedicle valves.

S. Weller, 1914, pp. 140–141, pl. 18, figs. 1–4.
Sutton, 1938, p. 556.
Muir-Wood and Cooper, 1960, pp. 243–244.

= *Pustula genevievensis* (S. Weller, 1914)
Snider, 1915, p. 82.

Mississippian, Ste. Genevieve Limestone.

Two miles northeast of Columbia, Illinois; collected by S. Weller, 1911.

Referred specimens: UC 14768, a brachial and a pedicle valve.
S. Weller, 1914, pp. 140–141, pl. 18, figs. 5, 6.
Sutton, 1938, p. 556.
Muir-Wood and Cooper, 1960, pp. 243–244.

= *Pustula genevievensis* (S. Weller, 1914)
Snider, 1915, p. 82.

Mississippian, Ste. Genevieve Limestone.

Columbia, Illinois.

Echinoconchus sp.

Referred specimen: UC 12988.
S. Weller, 1914, pl. 17, figs. 8, 9.

= *Pustula* sp.
Snider, 1915, p. 82.

Mississippian, St. Louis Limestone.

Carondelet, Missouri; Van Horne Collection.

Echinoconchus ? sp.

Referred specimen: UC 48254.
Easton, 1943, p. 147.

Mississippian, Pitkin Formation.

Easton locality 25, middle of Pitkin in bluffs above Highway 71, three-fourths mile southeast of West Fork, Arkansas; Easton Collection.

Eichwaldia reticulata (Hall, 1863)

Referred specimens: UC 12471, three pedicle valves.
Hall and Clarke, 1895a, pl. 83, figs. 8, 12, 13.

= *Dictyonella reticulata* (Hall, 1863)
Schuchert, 1897, p. 211.

Silurian, Niagaran.
Hall locality 191, "Waldron, Indiana"; Hall Collection.

Encuclodema sordida-multiplicata (Foerste, 1910)
See: *Cyclocoelia sordida-multiplicata* Foerste, 1910.

Enteletes hemiplicata Hall, 1852
Referred specimen: UC 12336.
Hall and Clarke, 1892a, pl. 7A, fig. 46.
Hall and Clarke, 1892b, pl. 12, fig. 18.
Pennsylvanian.
Winterset, Iowa; Hall Collection.

Referred specimen: UC 14095.
Hall and Clarke, 1892a, pl. 7A, fig. 45.

Referred specimen: UC 14096.
Hall and Clarke, 1892a, pl. 7A, fig. 48.
Pennsylvanian.
Kansas City, Missouri; Hall Collection.

Eolissochonetes keyesi Muir–Wood, 1962
See: *Chonetes laevis* Keyes, 1888.

Eospirifer macropleurus (Conrad, 1840)
See: *Spirifer macropleurus* (Conrad, 1840).

Eostrophalosia rockfordensis (Hall and Clarke, 1892)
See: *Strophalosia rockfordensis* Hall and Clarke, 1892.

Eosyringothyris aspera (Hall, 1858)
See: *Spirifer asper* Hall, 1858.

Eumetria acuticosta S. Weller, 1914
Holotype: original designation UC 14778.
S. Weller, 1914, pp. 447–448, pl. 76, figs. 30–34.
Mississippian, Chester Group.
S. Weller locality W295, near West Vienna, Johnson County, Illinois; collected by S. Weller, 1907.

Eumetria altirostris (White, 1862)

Referred specimens: UC 5934, three specimens.
S. Weller, 1900a, pp. 74–75, pl. 2, figs. 18, 19.

Mississippian, Chonopectus Sandstone.

Burlington, Iowa; Weller Collection.

Referred specimens: UC 10575, nine specimens.
S. Weller, 1914, pp. 438–439, pl. 76, figs. 7–11.
Cooper *in* Shimer and Shrock, 1944, p. 361, pl. 141, figs. 35–37.

Mississippian, Hannibal Shale, English River Gritstone Member.

Maple Mill, Washington County, Iowa; collected by S. Weller, 1902.

Eumetria costata (Hall, 1858)

Referred specimens: UC 7833, ten specimens.
S. Weller, 1914, pp. 445–447, pl. 76, figs. 25–29.

Mississippian, Kaskaskia Group.

Chester, Illinois; Gurley Collection.

See also: *Eumetria vera* var. *costata* (Hall, 1858).

Eumetria lata Snider, 1915

Holotype, not designated, to be selected from UC 16208.

Referred specimens: UC 16208, two brachial valves.
Snider, 1915, p. 95, pl. 5, figs. 13, 14.

Mississippian, Fayetteville Limestone.

Snider, 1915 locality F16 [catalogue], F15 [published], Pryor Quadrangle, Oklahoma; Snider, donor.

Eumetria osagensis (Swallow, 1860)

See: *Acambona? osagensis* (Swallow, 1860).

Eumetria swallovi Moore, 1928

Holotype: original designation UC 32154, a brachial valve.
Moore, 1928, pp. 277–278, pl. 12, figs. 7, 8.
Branson, 1938a, pp. 72–73, pl. 9, fig. 12.

Mississippian, Chouteau Bed no. 3.

One-quarter mile above Snake Den, Newark, Missouri; collected by Moore.

Eumetria vera (Hall, 1858)

Referred specimens: UC 12385, two specimens.
Hall and Clarke, 1893, pp. 117–118.
Hall and Clarke, 1894, p. 797, pl. 37, figs. 8, 12.
Hall and Clarke, 1895a, pl. 51, figs. 36, 37.
Mississippian, Chester Group.
Crittenden County, Kentucky; Hall Collection.

Referred specimen: UC 12386.
Hall and Clarke, 1893, pp. 117–118.
Hall and Clarke, 1894, p. 797, pl. 37, fig. 5.
Hall and Clarke, 1895a, pl. 51, fig. 29.
Mississippian, Chester Group.
Chester, Illinois; Hall Collection.

Referred specimens: UC 13575, four specimens.
S. Weller, 1914, pp. 444–445, pl. 76, figs. 13–17.
Mississippian, Chester Group.
Chester, Illinois; Van Horne Collection.

Referred specimen: UC 47226, a brachial valve.
Easton, 1942, pl. 7, fig. 11.
Mississippian, Pitkin Limestone.
Easton, locality 37, three-fourths mile southeast of West Fork, Arkansas; Easton Collection.
See also: *Eumetria vernuiliana* (Hall, 1856).

Eumetria vera var. **costata** (Hall, 1858)

Referred specimen: UC 12385A.
Hall and Clarke, 1893, p. 119.
Hall and Clarke, 1895a, pl. 51, figs. 28, 31, 32.
=*Eumetria costata* (Hall, 1858)
S. Weller, 1914, pp. 445–447.
Mississippian, Chester Group.
Crittenden County, Kentucky; Hall Collection.

Eumetria vernuiliana (Hall, 1856)

Referred specimens: UC 7830, 12 specimens.
S. Weller, 1914, pp. 442–444, pl. 76, figs. 18–24.
=*Eumetria vera* (Hall, 1858)

Cooper *in* Shimer and Shrock, 1944, p. 361, pl. 141, figs. 38–41.
Mississippian, Salem Limestone.
Spergen Hill, Indiana; Gurley Collection.

Referred specimens: UC 12383, two specimens.
Hall and Clarke, 1893, p. 119.
Hall and Clarke, 1894, pl. 37, fig. 6.
Hall and Clarke, 1895a, pl. 51, figs. 23–26.
Mississippian, Residuary Chert.
Hall locality 422, "Springfield, Green County, Missouri. Some limestone specimens among them may be Keokuk. From Mr. Shepard of Springfield, Missouri"; Hall Collection.

Referred specimens: UC 12384, two specimens.
Hall and Clarke, 1893, p. 119.
Hall and Clarke, 1894, pl. 37, figs. 3, 4.
Hall and Clarke, 1895a, pl. 51, figs. 34, 35, pl. 83, figs. 26, 27.
Mississippian, Salem Limestone.
Hall locality 360a, "Spergen Hill [Indiana] Herzer Collection"; Hall Collection.

Eunella compressa S. Weller, 1906

Holotype, not designated, to be selected from UC 11347.

Referred specimens: UC 11347, 15 specimens.
S. Weller, 1906, pp. 442–443, pl. 6, figs. 13–16.
= *Dielasmella compressa* (S. Weller, 1906)
S. Weller, 1911, p. 447, text figs. 7a–f.
S. Weller, 1914, pp. 280–281, text figs. 34a–f, p . 30, figs. 43–55.
Branson, 1938a, p. 134, pl. 16, figs. 16–18.
Mississippian, Glen Park, Limestone.
S. Weller locality 11, Glen Park, Missouri; collected by S. Weller, 1904.

Flexaria arkansana (Girty, 1910)

See: *Productus abruptus* Sutton and Wagner, 1931.

Girtyella brevilobata (Swallow, 1863)

Referred specimen: UC 7786.
S. Weller, 1914, pp. 278–279, pl. 34, figs. 37–39.
Mississippian, Chester Group.

Golconda, Illinois.

See also: *Dielasma turgida* var. *elongata* S. Weller, 1897.

Girtyella (?) emarginata Mather, 1915

Holotype, not designated, to be selected from UC 16079.

Referred specimens: UC 16079, three specimens.
Mather, 1915, pp. 180–181, pl. 11, figs. 13–13b.

Pennsylvanian, Kessler Limestone.

Mather, 1915 station 209, East Mountain, Fayetteville, Arkansas; Mather, donor.

Girtyella indianensis (Girty, 1908)

Referred specimens: UC 7774, 13 specimens.
S. Weller, 1914, pp. 275–276, pl. 34, figs. 7–9.

Referred specimens: UC 14237, 33 specimens.
S. Weller, 1914, pp. 275–276, pl. 34, figs. 1–6.

Mississippian, Pella Beds.

Pella, Iowa; Van Horne Collection.

Referred specimens: UC 14238, seven specimens.
S. Weller, 1914, pp. 275–276, pl. 34, figs. 10, 11.

Mississippian, Ste. Genevieve Beds.

Fountain Creek, near Waterloo, Illinois; Gurley Collection.

Referred specimens: UC 14800, two specimens.
S. Weller, 1914, pp. 275–276, pl. 34, figs. 18–24.

Mississippian, Lower Chester Group.

Rosiclare, Illinois; Gurley Collection.

Girtyella intermedia S. Weller, 1914

Holotype, not designated, to be selected from UC 14772.

Referred specimens: UC 14772, six specimens.
S. Weller, 1914, pp. 276–277, pl. 34, figs. 42–47.

Mississippian, Paint Creek Formation.

Near Modoc, Randolph County, Illinois; collected by S. Weller, 1907.

Girtyella turgida (Hall, 1856)

Referred specimens: UC 14234, ten specimens.

S. Weller, 1914, pp. 273–274, pl. 34, figs. 25–31.
Cooper *in* Shimer and Shrock, 1944, p. 365, pl. 143, figs. 21–23.
Mississippian, Salem Limestone.
Bloomington, Indiana; Siebenthal, donor.

Referred specimens: UC 14771, two specimens.
S. Weller, 1914, pp. 273–274, pl. 34, figs. 32–36.
Mississippian, Salem Limestone.
Hull's Hollow, near Alton, Illinois; Van Horne Collection.
See also: *Dielasma turgida* (Hall, 1856) UC 12240.

Glassia romingeri Hall and Clarke, 1893
Holotype, not designated, to be selected from UC 12472.

Referred specimens: UC 12472, two specimens.
Hall and Clarke, 1893, pp. 152–153.
Hall and Clarke, 1895a, pl. 83, figs. 32–35.
Hall and Clarke, 1895b, p. 363, pl. 8, figs. 33–36.
Hall and Clarke, 1895c, p. 363, pl. 8, figs. 33–36.
Ordovician, Trenton Limestone.
Drift Boulder, near Ann Arbor, Michigan; Hall Collection.

Glossina sedaliensis (S. A. Miller, 1892)
Referred specimens: UC 9652, three specimens.
S. Weller, 1914, pp. 37–38, pl. 1, fig. 11.
Mississippian, Chouteau Limestone.
Pettis County, Missouri; Sampson Collection.

Gypidula angulata S. Weller, 1903
Holotype, not designated, to be selected from UC 10435.

Referred specimens: UC 10435, three specimens.
S. Weller, 1903, pp. 280–281, pl. 28, figs. 13, 14, 17.
Devonian, Coeymans Limestone.
S. Weller, 1903 locality 15C, near Hainesville, New Jersey; New Jersey Collection.

Gypidula comis (Owen, 1852)
Referred specimen: UC 12458, a single valve.
Hall and Clarke, 1893, p. 241.
Hall and Clarke, 1895a, pl. 72, fig. 24.

= *Pentamerella arata* (Conrad, 1841) museum catalogue
Devonian, Hamilton Group.
Hall, locality 282, "Falls of the Ohio or Clarke County, Indiana, Herzer Collection."
Published locality, Central Indiana; Hall Collection.

Referred specimens: UC 12933, two specimens.
Hall and Clarke, 1893, pp. 247–248.
Hall and Clarke, 1894, pp. 846–847, pl. 48, figs. 25–26.
Hall and Clarke, 1895a, pl. 72, figs. 15–17, 21.
Devonian.
Lime Creek, Iowa; Hall Collection.

Gypidula cornuta Fenton and Fenton, 1924
Holotype: original designation UC 26063.
Fenton and Fenton, 1924, pp. 121–122, pl. 25, figs. 26–28.

Referred specimen: UC 26062.
Fenton and Fenton, 1924, pp. 121–122, pl. 25, figs. 29–31.
Devonian, Hackberry Stage, *Gypidula* Faunule.
Clay Pit, Rockford, Iowa; Fenton Collection.

Gypidula cornuta parva Fenton and Fenton, 1924
Holotype: original designation UC 26064.
Fenton and Fenton, 1924, p. 123, pl. 25, figs. 32–35.
Devonian, Hackberry Stage, *Strophonella* Faunule.
Bird Hill, Rockford, Iowa; Fenton Collection.

Gypidula galeata (Dalman, 1828)
Referred specimen: UC 10434.
S. Weller, 1903, pp. 279–280, pl. 28, figs. 1, 2.
Devonian, Coeymans Limestone.
S. Weller, 1903 locality 37A, one-half mile northeast of Peter's Valley, New Jersey; New Jersey Collection.

Gypidula laeviscula Hall, 1867
Referred specimen: UC 12935.
Hall and Clarke, 1893, p. 248.
Hall and Clarke, 1895a, pl. 72, figs. 25, 26.
Devonian, Hackberry Stage.
Lime Creek, Iowa; Hall Collection.

Gypidula multicostata Dunbar, 1919

Referred specimens: UC 21082, six specimens.
Tansey *in* Branson, 1922, p. 191, pl. 18, figs. 10–14, 19.

Referred specimens: UC 21114, three specimens.
Tansey *in* Branson, 1922, p. 191, pl. 18, figs. 15–18.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Gypidula roemeri (Hall and Clarke, 1893)

See: *Sieberella roemeri* Hall and Clarke, 1893.

Gypidula romingeri Hall and Clarke, 1893

Holotype, not designated, to be selected from UC 12459.

Referred specimens: UC 12459, six specimens.
Hall and Clarke, 1893, p. 248.
Hall and Clarke, 1894, pl. 48, figs. 23–24, 27–28.
Hall and Clarke, 1895a, pl. 72, figs. 27–33.
Hall and Clarke, 1895b, p. 369, pl. 12, figs. 7–13.
Hall and Clarke, 1895c, p. 369, pl. 12, figs. 7–13.
Grabau and Shimer, 1909, p. 276, text fig. 340.

Devonian, Hamilton Group.

Hall, locality 320, "Alpena, Michigan"; Hall Collection.

Gypidula (Sieberella) roemeri (Hall and Clarke, 1893)

See: *Sieberella roemeri* Hall and Clarke, 1893.

Hamburgia typa S. Weller, 1911

Holotype, not designated, to be selected from UC 14245.

Referred specimens: UC 14245, 19 specimens.
S. Weller, 1911, pp. 445–446.
S. Weller, 1914, pp. 283–284, pl. 31, figs. 16–18.

Mississippian, Hamburg Oolite.

Hamburg, Calhoun County, Illinois; S. Weller Collection.

Hebertella occidentalis sinuata (Hall, 1847)

See: *Hebertella sinuata* (Hall, 1847).

Hebertella sinuata (Hall, 1847)
Referred specimens: UC 12331, a brachial and a pedicle valve.
Hall and Clarke, 1892a, p. 222, pl. 5A, figs. 2, 4.
= *Hebertella occidentalis sinuata* (Hall, 1847)
Bassler, 1915, p. 594.
Ordovician, Cincinnatian Series.
Cincinnati, Ohio; Hall Collection.

Hesperorthis interplicata Roy, 1941
Referred specimen: P 28260.
Roy, 1941, pp. 87–88.
Ordovician, Richmond.
Silliman's Fossil Mount, Frobisher Bay, Baffin Land; Roy Collection.
Remarks: Holotype, U. S. National Museum no. 28149.

Heteralosia cymbula (Hall and Clarke, 1892)
See: *Strophalosia cymbula* Hall and Clarke, 1892.

Heteralosia slocomi King, 1938
See: *Strophalosia spondyliformis* (White and St. John, 1868).

Hindella umbonata (Billings, 1865).
Referred specimen: UC 11961.
Hall and Clarke, 1893, p. 64
Hall and Clarke, 1895a, pl. 41, figs. 29, 30.
Ordovician, Ellis Bay.
Junction Cliff, Anticosti Island; Hall Collection.

Hipparionyx proximus Vanuxem, 1842
Referred specimen: UC 11930, a single valve.
Hall and Clarke, 1892a, pp. 257–259, pl. 15A, fig. 9.
Devonian, Oriskany Sandstone.
Albany County, New York; Hall Collection.

Referred specimen: UC 54058.
Hall and Clarke, 1892a, pl. 15A, fig. 11.
Hall and Clarke, 1892b, pl. 16, fig. 20.
Devonian, Oriskany Sandstone.

Hall, locality 255, "Canada West, April 1879, collection purchased of Edmund DeCew. Including some corniferous and grit."

Published locality, Cayuga, Ontario; Hall Collection.

Homeospira cyclothyra Grubbs, 1939

Holotype: original designation 46056.
Grubbs, 1939, p. 558, pl. 62, figs. 26–28.

Referred specimens: UC 46057, seven specimens.
Grubbs, 1939, p. 558.

Silurian, Niagaran Dolomite.

Federal Stone Co. Quarry, near Chicago, Illinois; Grubbs Collection.

Homeospira? evax (Hall, 1863)

Referred specimen: UC 12380.
Hall and Clarke, 1893, pp. 111–112.
Hall and Clarke, 1895a, pl. 50, fig. 32.

Silurian, Niagaran.

Perry County, Tennessee; Hall Collection.

Hustedia brentwoodensis Mather, 1915

Holotype, not designated, to be selected from UC 16153.

Referred specimens: UC 16153, three specimens.
Mather, 1915, pp. 195–196, pl. 13, figs. 1–3c.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 135, near Fayetteville, Arkansas; Mather, donor.

Hustedia circularis (S. A. Miller, 1892)

Referred specimens: UC 9727, two specimens.
S. Weller, 1914, pp. 451–452, pl. 76, figs. 50–52.
Branson, 1938a, p. 73.

Mississippian, Chouteau Limestone.

Pettis County, Missouri; Sampson Collection.

See also: *Retzia circularis*? (S. A. Miller, 1892).

Hustedia miseri Mather, 1915

Referred specimens: UC 16575, four specimens.

Mather, 1915, pp. 196–197.

Pennsylvanian, Hale Formation.

Mather, station 149, East Mountain, Fayetteville, Arkansas; Mather, donor.

Hustedia mormoni (Marcou, 1858)

Referred specimen: UC 12940.
Hall and Clarke, 1894, pl. 37, figs. 13–18.
Hall and Clarke, 1895a, pl. 51, figs. 1–7.

Pennsylvanian.

Braddyville, Iowa; Hall Collection.

Hustedia multicostata Girty, 1910

Referred specimens: UC 16207, two specimens.
Snider, 1915, p. 93, pl. 5, figs. 7–12.
Easton, 1942, pl. 8, fig. 3.

Mississippian, Pitkin Formation.

Snider, 1915 locality P8, Hulbert Muskogee Quadrangle, Oklahoma; Snider, donor.

Hustedia sp.

Referred specimen: UC 47227.
Easton, 1942, pl. 8, fig. 2.

Mississippian, Pitkin Formation.

Arkansas; Easton Collection.

Hyattella congesta (Conrad, 1842)

See: *Atrypa congesta* Conrad, 1842.

Hyattella? lamellosa S. Weller, 1903

Holotype: original designation UC 37863.
S. Weller, 1903, p. 258, pl. 23, figs. 15–18.

= *Hyattidina lamellosa* (S. Weller, 1903)
Bassler, 1915, p. 653.

Silurian, Rondout Formation.

S. Weller, 1903 locality $2A^{17}$, William Nearpass Quarry, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Hyattidina congesta (Conrad, 1842)
See: *Atrypa congesta* Conrad, 1842

Hyattidina cf. **congesta** (Conrad, 1842)
Referred specimen: UC 29218, a single valve.
Culbertson, 1926, p. 115, pl. on p. 113, fig. 5.
Silurian, Brassfield Limestone.
Hanover, Indiana; Culbertson, donor.

Hyattidina lamellosa (S. Weller, 1903)
See: *Hyattella? lamellosa* S. Weller, 1903.

Hypothyridina cuboides (Sowerby, 1840)
See: *Hypothyris venustula* (Hall, 1867).

Hypothyris cuboides (Sowerby, 1840)
See: *Hypothyris venustula* (Hall, 1867).

Hypothyris venustula (Hall, 1867)
Referred specimen: UC 12426.
Hall and Clarke, 1893, p. 200.
Hall and Clarke, 1895a, pl. 60, fig. 54.
= *Hypothyris cuboides* (Sowerby, 1840)
Schuchert, 1897, p. 233.
Devonian, Tully Limestone.
Ovid, New York; Hall Collection.
Remarks: *H. cuboides* = *Hypothyridina cuboides* (Sowerby, 1840)
Buckman, 1906, p. 324.

Inflatia cherokeensis (Drake, 1898)
See: *Productus cherokeensis* Drake, 1898.

Inflatia inflata (McChesney, 1860)
See: *Productus inflatus* McChesney, 1860.

Isorthis perelegans (Hall, 1857)
See: *Dalmanella perelegans* (Hall, 1857).

Krotovia echinata (Moore, 1928)
See: *Pustula echinata* Moore, 1928.

Krotovia lucerna Easton, 1943

Holotype: original designation UC 48253, a pedicle valve.
Easton, 1943, p. 147, pl. 24, fig. 8.

Mississippian, Pitkin Formation.

Easton, locality 29, red-speckled Pitkin at base of bluff northwest across road from "big spring" north of Cane Hill, Arkansas; Easton Collection.

Kutorgina latourensis Matthew, 1886

Referred specimen: UC 11922, a pedicle valve.
Hall and Clarke, 1892a, pp. 92–93, pl. 4, figs. 18–20.

= *Protorthis latourensis* (Matthew, 1886)
Walcott, 1912, pp. 741–742.

Cambrian, St. John Group, Stage 1c.

Hall, locality 6b, "Portland [now part of the city of St. John, St. John County] New Brunswick, Canada; collection of Geo. F. Matthew of St. John"; Hall Collection.

Labriproductus wortheni (Hall, 1858)

See: *Productus wortheni* Hall, 1858.

Leptaena analoga (Phillips, 1836)

Referred specimen: UC 347, a pedicle valve.
S. Weller, 1914, pp. 49–52, pl. 2, fig. 10.

Mississippian, Lower Burlington Limestone.

Near Springfield, Missouri; Weller Collection.

Referred specimens: UC 7055, five specimens.
S. Weller, 1914, pp. 49–52, pl. 2, figs. 7–9.

Mississippian, Chouteau Limestone.

Green County, Missouri; Weller Collection.

Referred specimens: UC 9719, 15 specimens.
S. Weller, 1914, pp. 49–52, pl. 2, figs. 5, 6.

Mississippian, Chouteau Limestone.

Pettis County, Missouri; Sampson Collection.

Remarks: *L. analoga* = *Leptagonia analoga* (Phillips, 1836)
Williams *in* Moore, 1965, p. 394.

See also: *Leptaena rhomboidalis* (Wilckens, 1769) UC 4696.

Leptaena aspera James, 1874

Holotype, not designated, to be selected from UC 1085.

Referred specimens: UC 1085, 23 specimens.
James, 1874c, p. 151.

= *Plectambonites rugosa* (Meek, 1873)
Foerste, 1912, pp. 123–127.

= *Plectambonites aspera* (James, 1874) museum catalogue.

Ordovician, Cincinnatian Series.

One hundred fifty feet above James' low water mark of the Ohio River at Cincinnati, Ohio; James Collection.

Leptaena convexa S. Weller, 1914

Holotype, not designated, to be selected from UC 13356, UC13357, and UC 6659.

Referred specimens: UC 13356, two specimens.
S. Weller, 1914, pp. 52–53, pl. 2, figs. 11, 12.

Referred specimen: UC 13357.
S. Weller, 1914, pp. 52–53, pl. 2, figs. 15, 16.

Mississippian, Kinderhook Bed no. 6.

Burlington, Iowa; Hall Collection.

Referred specimen: UC 6659.

See: *Leptaena rhomboidalis* (Wilckens, 1769)

Leptaena gibbosa (James, 1874)

See: *Strophomena gibbosa* James, 1874.

Leptaena rhomboidalis (Wilckens, 1769)

Referred specimens: UC 4696, two specimens.
S. Weller, 1909, pp. 292–293, pl. 12, figs. 2, 3.

=*Leptaena analoga* (Phillips, 1836)
S. Weller, 1914, pp. 49–52, pl. 2, figs. 1–4.
Cooper *in* Shimer and Shrock, 1944, pp. 341–343, pl. 132, figs. 28, 29.

Mississippian, Fern Glen Formation.

Near Kimmswick, Missouri; S. Weller Collection.

Remarks: *L. analoga*=*Leptagonia analoga* (Phillips, 1836)
Williams *in* Moore, 1965, p. 394.

Referred specimens: UC 6659, two specimens.
S. Weller, 1901, p. 159, pl. 14, figs. 19, 20.
= "cotypes" of *Leptaena convexa* S. Weller, 1914
S. Weller, 1914, pp. 52–53, pl. 2, figs. 13, 14.
Mississippian, Kinderhook Bed no. 5.
Burlington, Iowa; S. Weller Collection.

Referred specimen: UC 10395.
S. Weller, 1903, p. 228, pl. 20, fig. 10.
Silurian, Decker Ferry.
S. Weller, 1903, locality $2A^{12}$, William Nearpass Quarry, two miles south of Tri-States, New York, in New Jersey; S. Weller Collection.

Referred specimens: UC 21069, three specimens.
Tansey *in* Branson, 1922, pp. 186–187, pl. 46, figs. 26–28.

Referred specimens: UC 21070, four specimens.
Tansey *in* Branson, 1922, pp. 186–187, pl. 46, figs. 29–32.
Devonian, Bailey Limestone (chert).
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Leptaena rhomboidalis var. **ventricosa** (Hall, 1857)
Referred specimen: UC 11935.
Hall and Clarke, 1892a, pp. 279–280, pl. 15A, fig. 43.
Devonian, Oriskany Sandstone.
Cumberland, Maryland; Hall Collection.

Leptaena ventricosa (Hall, 1857)
Referred specimens: UC 27478, three specimens.
Stewart *in* Branson, 1922, pp. 231–232, pl. 61, figs. 15–17.
Devonian, Little Saline Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Leptaenisca concava (Hall, 1857)
Referred specimen: UC 11938.
Hall and Clarke, 1892a, p. 300, pl. 15A, fig. 19.
Devonian, Lower Helderberg Group.
Albany County, New York; Hall Collection.

Referred specimens: UC 21050, two specimens.
Tansey *in* Branson, 1922, pp. 189–190, pl. 47, figs. 13, 14.

Referred specimens: UC 21117, six specimens.
Tansey *in* Branson, 1922, pp. 189–190, pl. 47, figs. 7–12, 15–16.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Leptaenisca tangens Hall and Clarke, 1892

Referred specimen: UC 11941, a pedicle valve.
Hall and Clarke, 1892a, pp. 352–353, pl. 15A, fig. 26.
Hall and Clarke, 1892b, pl. 19, fig. 21.
Hall and Clarke, 1895b, p. 352, pl. 6, fig. 21.
Hall and Clarke, 1895c, p. 352, pl. 6, fig. 21.

Devonian, Lower Helderberg Group.

Hall, locality 687, "between Clarksville, Knowersville, and Schoharie, New York. All Brachiopoda gathered together and placed under this number. Feb. 19, 1889. Including specimens of *Rensellaeria* from Port Jervis."

Published locality, near Clarksville, New York; Hall Collection.

Remarks: UC 11941 is one of the specimens originally illustrated by Hall and Clarke, 1892. It is not known whether a holotype has been designated.

Leptagonia analoga (Phillips, 1836)

See: *Leptaena analoga* (Phillips, 1836).
Leptaena rhomboidalis (Wilckens, 1769).

Leptalosia radicans (Winchell, 1866)

See: *Strophalosia radicans* (Winchell, 1866).

Leptalosia scintilla (Beecher, 1890)

See: *Strophalosia scintilla* Beecher, 1890.

Leptobolus occidentalis Hall, 1871

Holotype: UC 11951.
Hall, 1871, p. 3, pl. 3, fig. 18.
Hall, 1872, p. 227, pl. 7, fig. 18.
Hall and Clarke, 1892a, pl. 3, fig. 7.

Ordovician, Utica Shale.

Platteville, Wisconsin (catalogue); Hawley's Mill, 12 miles west of Dubuque, Iowa (published); Hall Collection.

Leptocoelia flabellites (Conrad, 1841)

See: *Anoplotheca flabellites* (Conrad, 1841).

Leptospira costata (Hall, 1859)

See: *Trematospira costata* Hall, 1859.

Leptospira simplex (Hall, 1859)

See: *Trematospira simplex* Hall, 1859.

Leptostrophia magnifica (Hall, 1857)

Referred specimens: UC 27474, three single valves.
Stewart *in* Branson, 1922, pp. 233–234, pl. 62, figs. 1–3.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Leptostrophia magniventra (Hall, 1857)

Referred specimens: UC 27473, two single valves.
Stewart *in* Branson, 1922, pp. 234–235, pl. 62, figs. 4, 5.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Leptostrophia planulata (Hall, 1859)

See: *Stropheodonta* (*Leptostrophia*) *planulata* (Hall, 1859).

Leptostrophia rockfordensis Fenton and Fenton, 1924

Holotype: original designation UC 26058, a single valve which has been broken since the figure was published.
Fenton and Fenton, 1924, pp. 93–95, pl. 21, figs. 5, 6.

= *Nervostrophia rockfordensis* (Fenton and Fenton, 1924)
Williams, 1953, pp. 41–42.

Devonian, Hackberry Stage, Spirifer Zone.

Clay Pit, Rockford, Iowa.

Levenea quadrans (Hall, 1859)

See: *Dalmanella quadrans* (Hall, 1859).

Lindstroemella aspidium Hall and Clarke, 1892

Referred specimen: UC 11890, a pedicle valve.
Hall and Clarke, 1892a, pp. 178–179, pl. 4E, fig. 28.
Hall and Clarke, 1895b, p. 334, pl. 3, fig. 4.
Hall and Clarke, 1895c, p. 334, pl. 3, fig. 4.

Devonian, Hamilton Group.

Griswold, near Darien, New York (catalogue); Darien, New York (published); Hall Collection.

Remarks: UC 11890 is one of the specimens originally illustrated by Hall and Clarke, 1892. It is not known whether a holotype has been designated.

Lingula cincinnatiensis (Hall and Whitfield, 1875)

See: *Lingulella* (*Dignomia*?) *cincinnatiensis* Hall and Whitfield, 1875.

Lingula complanata Williams, 1882

Referred specimen: UC 11925, a single valve.
Hall and Clarke, 1892a, pl. 1, fig. 17.

Devonian, Hamilton Group [catalogue]; Portage Group [published].

Hall, locality 302, "Lower beds at Pratts Falls. Collected H. H. Smith."

Published locality, Ithaca, New York; Hall Collection.

Lingula covingtonensis Hall and Whitfield, 1875

Holotype: original designation UC 139, upper valve.
Hall and Whitfield, 1875b, p. 67, pl. 1, fig. 1.
Foerste, 1910, p. 22, pl. 5, fig. 5.
Foerste, 1916, pp. 305–306, pl. 3, fig. 7.

Ordovician, Cincinnatian Series.

Kentucky, opposite Cincinnati, Ohio; James Collection.

Lingula crawfordsvillensis Gurley, 1883

Holotype: UC 6315, a ventral valve.
Gurley, 1883, pp. 2–3.

= "cotype" of *Dielasma sinuata* S. Weller, 1914.
S. Weller, 1914, pp. 262–263, pl. 31, fig. 34.
Mississippian, Crawfordsville Shale.
Crawfordsville, Indiana; Gurley Collection.

Lingula cuneata Conrad, 1839
Referred specimen: UC 11924, a slab with several specimens.
Hall and Clarke, 1892a, pp. 12, 15, pl. 4K, fig. 9.
Silurian, Medina Sandstone.
Hall, locality 157, "Jewett duplicate collection."
Published locality, Medina, New York; Hall Collection.

Lingula gorbyi S. A. Miller, 1891
Referred specimens: UC 9653, two specimens.
S. Weller, 1914, p. 35, pl. 1, fig. 1.
Branson, 1938a, p. 21.
Mississippian, Chouteau Limestone.
Pettis County, Missouri; Sampson Collection.

Referred specimen: UC 9654, a single valve.
S. Weller, 1914, p. 35, pl. 1, fig. 2.
Branson, 1938a, p. 21.
Mississippian, Chouteau Limestone.
Winzenberg, Pettis County, Missouri; Sampson Collection.

Lingula indianensis S. A. Miller and Gurley, 1894
Holotype: UC 6187, a ventral valve.
S. A. Miller and Gurley, 1894, p. 69, pl. 7, fig. 1.
S. Weller, 1914, p. 37, pl. 1, fig. 7.
Mississippian, Keokuk Group.
Crawfordsville, Indiana; Gurley Collection.

Lingula lamellata Hall, 1843
Referred specimens: UC 11923, one specimen and a thin section.
Hall and Clarke, 1892a, p. 16, pl. 4K, figs. 10–13.
Silurian, Niagara Group.
Hamilton, Ontario, Canada; Hall Collection.

Lingula lingulata Hall and Clarke, 1892
Holotype: UC 11921, a single valve.

Hall and Clarke, 1892a, p. 173, pl. 4K, fig. 5.
Hall and Clarke, 1895b, p. 327, pl. 1, fig. 2.
Hall and Clarke, 1895c, p. 327, pl. 1, fig. 2.

Silurian, Niagara Group, Clinton Formation.

Hall locality 166, "Hamilton, Ontario. Sept. 2nd 1889. Hall Collection.

Lingula norwoodi James, 1875

Holotype: original designation UC 623, a single valve.
James *in* S. A. Miller, 1875, p. 10, fig. 2.
James, 1883, p. 235, pl. 10, fig. 1.
S. A. Miller, 1889, p. 350, text fig. 574.

=*Lingulops norwoodi* (James, 1875)
Hall and Clarke, 1892a, pp. 19–24.
Foerste, 1916, pl. 3, figs. 17a, b.

Ordovician, Cincinnatian Series, Cynthiana Formation.

West Covington, Kentucky, opposite Cincinnati, Ohio; James Collection.

Lingula subspatulata Meek and Worthen, 1868

Referred specimen: UC 7887, a ventral valve.
Meek and Worthen, 1868, p. 437, pl. 13, fig. 1.

=*Barroisella subspatulata* (Meek and Worthen, 1868)
S. Weller, 1914, pl. 1, fig. 10.

Devonian, Black Shale.

Near Jonesboro, Union County, Illinois; Gurley Collection.

Remarks: *L. subspatulata* = *Barroisella campbelli* Cooper, 1942. Cooper, 1942, p. 228.

Lingula van hornei S. A. Miller, 1875

Holotype: original designation UC 8865.
S. A. Miller, 1875, pp. 9–10, text fig. 1.
S. A. Miller, 1889, p. 351, text fig. 575.
Foerste, 1916, pp. 306–308, pl. 3, fig. 6 and pl. 4, figs. 5a and 5b.

Ordovician, Cincinnatian Series.

Versailles, Indiana; Faber Collection.

Lingula vanhornii S. A. Miller, 1875

Referred specimen: UC 11903, a single valve.

Hall and Clarke, 1892a, p. 8, pl. 1, fig. 4.
Ordovician, Trenton [catalogue]; Hudson River Group [published].
Hall locality 136b, "Frankfort, Kentucky, Herzer Collection."
Published locality, Cincinnati, Ohio; Hall Collection.

Lingula sp.
Referred specimen: UC 7885, a single valve.
S. Weller, 1914, pl. 1, fig. 8.
Mississippian, Kaskaskia Group.
Chester, Illinois; Gurley Collection.

Referred specimens: UC 14497, two specimens.
S. Weller, 1914, pl. 1, fig. 9.
Mississippian, St. Louis Limestone.
Monroe County, Illinois, SE 1/4, SE 1/4, sec. 16, T2S, R10W; collected by S. Weller, 1911.

Lingulella (Dignomia?) cincinnatiensis Hall and Whitfield, 1875
Holotype, not designated, to be selected from UC 166.

Referred specimens: UC 166, two specimens.
Hall and Whitfield, 1875b, pp. 67–68, pl. 1, fig. 3.
S. A. Miller, 1889, p. 352, text fig. 577.
=*Lingula cincinnatiensis* (Hall and Whitfield, 1875)
Schuchert, 1897, p. 244.
Ordovician, Cincinnatian Series.
Cincinnati, Ohio; James Collection.

Lingulella (Lingulepis) acuminata (Conrad, 1839)
See: *Lingulepis pinnaformis* (Owen, 1852).

Lingulepis pinnaformis (Owen, 1852)
Referred specimens: UC 11907, two specimens.
Hall, 1863, pp. 129–130, pl. 6, figs. 15, 16.
=*Lingulepis pinniformis* (Owen, 1852)
Hall and Clarke, 1892a, pp. 60–61, text figs. 22, 23, pl. 1, figs. 35, 36.
Grabau and Shimer, 1909, p. 193, text fig. 227.
=*Lingulella* (*Lingulepis*) *acuminata* (Conrad, 1839)
Walcott, 1912, pp. 545–550.

Cambrian, St. Croix.

Falls of the St. Croix, Minnesota.

Remarks: *L. pinnaformis*=?*Lingulepis pinnaformis* (Owen, 1852) Rowell *in* Moore, 1965, p. 267.

Lingulepis pinniformis (Owen, 1852)

See: *Lingulepis pinnaformis* (Owen, 1852).

Lingulops granti Hall and Clarke, 1892

Holotype, not designated, to be selected from UC 11908.

Referred specimens: UC 11908, three single valves.
Hall and Clarke, 1892a, pp. 19 and 173, pl. 4K, figs. 14, 15.
Hall and Clarke, 1895b, p. 328, pl. 1, figs. 7, 8.
Hall and Clarke, 1895c, p. 328, pl. 1, figs. 7, 8.

Silurian, Niagara Dolomite.

Hall locality 209, "Hamilton, Ontario. September 2nd 1889. *Grt*=Grant [UC 11908]; *Tbl*=Turnbull; *Wlk*=Walker"; Hall Collection.

Lingulops norwoodi (James, 1875)

See: *Lingula norwoodi* James, 1875.

Linoproductus altonensis (Norwood and Pratten, 1855)

See: *Productus altonensis* Norwood and Pratten, 1855.

Linoproductus ovatus (Hall, 1858)

See: *Productus laevicostus* White, 1860.
Productus ovatus Hall, 1858.
Productus ovatus var. *latior* Snider, 1915.
Productus ovatus var. *minor* Snider, 1915.

Linoproductus tenuicostus (Hall, 1858)

See: *Productus tenuicostus* Hall, 1858.

Liorhynchus castaneus (Meek, 1868)

Referred specimens: UC 12415, two specimens.
Hall and Clarke, 1893, p. 194.
Hall and Clarke, 1895a, pl. 59, figs. 28, 29.

Devonian.

Eureka District, Nevada; Hall Collection.

Remarks: *Liorhynchus* Oehlert, 1887 = *Leiorhynchus* Hall, 1860 Schmidt and McLaren *in* Moore, 1965, p. 581.

Liorhynchus globuliformis (Vanuxem, 1842)

Referred specimen: UC 12413.
Hall and Clarke, 1893, p. 194.
Hall and Clarke, 1895a, pl. 59, fig. 23.

Devonian, Hamilton Group.

Otsego County, New York; Hall Collection.

Referred specimen: UC 12414.
Hall and Clarke, 1893, p. 194.
Hall and Clarke, 1895a, pl. 59, fig. 25.

Devonian, New Albany Shale.

Hall locality a/325, "Lebanon, Kentucky."

Published locality, Lexington, Indiana; Hall Collection.

Remarks: *Liorhynchus* Oehlert, 1887 = *Leiorhynchus* Hall, 1860 Schmidt and McLaren *in* Moore, 1965, p. 581.

Liorhynchus greenianum (Ulrich, 1886)

Referred specimens: UC 13645, seven specimens.
S. Weller, 1914, pp. 185–187, pl. 25, figs. 27–33.

Mississippian, Keokuk Group.

Hall locality a/358, "New Albany, Indiana. Herzer Collection"; Hall Collection.

Remarks: *Liorhynchus* Oehlert, 1887 = *Leiorhynchus* Hall, 1860 Schmidt and McLaren *in* Moore, 1965, p. 581.

See also: *Pugnax greenianus* (Ulrich, 1886)

Liorhynchus laura (Billings, 1860)

Referred specimen: UC 12412.
Hall and Clarke, 1893, p. 194.
Hall and Clarke, 1894, pl. 43, fig. 18.
Hall and Clarke, 1895a, pl. 59, figs. 13, 14.

Devonian, Hamilton Group.

Widder, Ontario, Canada; Hall Collection.

Remarks: *Liorhynchus* Oehlert, 1887 = *Leiorchynchus* Hall, 1860 Schmidt and McLaren *in* Moore, 1965, p. 581.

Liorhynchus lesleyi Hall and Clarke, 1895

Holotype, not designated, to be selected from UC 12416.

Referred specimens: UC 12416, four specimens.
Hall and Clarke, 1895a, p. 368, pl. 59, figs. 34–36.
Hall and Clarke, 1895b, p. 365, pl. 9, figs. 41–43.
Hall and Clarke, 1895c, p. 365, pl. 9, figs. 41–43.

Devonian.

Pennsylvania.

Remarks: *Liorhynchus* Oehlert, 1887 = *Leiorhynchus* Hall, 1860 Schmidt and McLaren *in* Moore, 1965, p. 581.

?Lissocoelina maquoketa (Hall and Clarke, 1893)

See: *Pentamerus oblongus* var. *maquoketa* Hall and Clarke, 1893.

Lissocoelina pergibbosa (Hall and Whitfield, 1875)

See: *Pentamerus pergibbosus* Hall and Whitfield, 1875.

Lycophoria nucella (Dalman, 1828)

Referred specimens: UC 12434, four specimens.
Hall and Clarke, 1893, p. 230.
Hall and Clarke, 1895a, pl. 30, figs. 49–51.

Ordovician.

Near St. Petersburg, Russia; Hall Collection.

Machaeraria formosa (Hall, 1857)

See: *Rhynchotrema formosa* (Hall, 1857).

Macropleura macropleura (Conrad, 1840)

See: *Spirifer macropleurus* (Conrad, 1840).

Marginatia burlingtonensis (Hall, 1858)

See: *Productus burlingtonensis* Hall, 1858.

Marginatia fernglenensis (S. Weller, 1909)

See: *Productus fernglenensis* S. Weller, 1909.

Marginicinctus marginicinctus (Prout, 1857)

See: *Productus marginicinctus* Prout, 1857.

Marginicinctus wortheni (Hall, 1858)
See: *Productus wortheni* Hall, 1858.

Marginifera adairensis? (Drake, 1898)
Referred specimen: UC 16201, a pedicle valve.
Snider, 1915, pp. 84–85, pl. 4, fig. 12.
Mississippian, Mayes Formation.
Snider, 1915 locality M7, Pryor Quadrangle, Oklahoma; Snider, donor.

Referred specimen: UC 16202, a pedicle valve.
Snider, 1915, pp. 84–85, pl. 4, fig. 13.
Mississippian, Fayetteville Limestone.
Snider, 1915 locality F3, Muskogee Quadrangle, near Ft. Gibson, Oklahoma; Snider, donor.

Marginirugus magnus (Meek and Worthen, 1861)
See: *Productus magnus* Meek and Worthen, 1861.

Martinia contracta (Meek and Worthen, 1861)
Referred specimens: UC 14777, three specimens.
S. Weller, 1914, pp. 420–422, pl. 75, figs. 1–10.
Mississippian, Chester Group, base of Okaw Limestone.
City quarry, Red Bud, Illinois; collected by S. Weller, 1907.

Martinia sulcata S. Weller, 1914
Holotype, not designated, to be selected from UC 13677.

Referred specimens: UC 13677, 12 specimens.
S. Weller, 1914, p. 422, pl. 75, figs. 11–14.
Mississippian, Chester Group.
Hall locality 366, "Meade County, Kentucky. 1879 from Henry Nettelroth"; Hall Collection.

Martinia? sp.
Referred specimens: UC 32100, four specimens.
Moore, 1928, pl. 13, fig. 10.
Mississippian, Hannibal Sandstone.
North of Rockport, Pike County, Illinois; collected by S. Weller.

Mcewanella raymondi Foerste, 1920

Referred specimens: UC 29095, three specimens.
Bradley, 1930, pp. 224–225, pl. 23, figs. 7, 8.

Ordovician, Polk Bayou Limestone.

O'Flynn Mine, Independence County, Arkansas; collected by S. Weller.

Meekella striatocostata (Cox, 1857)

Referred specimen: UC 12337.
Hall and Clarke, 1892a, pl. 11B, fig. 21.
Hall and Clarke, 1892b, pl. 17, fig. 11.

Pennsylvanian.

Lawrence, Kansas; Hall Collection.

Referred specimens: UC 12650, two specimens.
Hall, 1883a, pl. (10) 40, figs. 19–21, 23.
Hall and Clarke, 1892a, pl. 10, figs. 19–21, 23.
Hall and Clarke, 1892b, pl. 17, figs. 10, 12.

Pennsylvanian.

Near Winterset, Iowa; Hall Collection.

Referred specimen: UC 16155, a pedicle valve.
Mather, 1915, pp. 148–149, pl. 10, fig. 10.

Pennsylvanian, Kessler Limestone.

Mather, 1915 station 144, near Brentwood, Arkansas; Mather, donor.

Megalanteris ovalis (Hall, 1857)

Referred specimens: UC 12466, two specimens.
Hall and Clarke, 1893, pp. 277 and 280.
Hall and Clarke, 1894, pl. 51, fig. 11.
Hall and Clarke, 1895a, pl. 77, figs. 15–22.

Devonian, Oriskany Sandstone.

Hall locality 257, "Schoharie, New York and Knox, Albany County. Vantuyl and other small collections."

Published locality, Albany County, New York; Hall Collection.

Remarks: *M. ovalis* = *Prionothyris ovalis* (Hall, 1857).
Cloud, 1942, p. 67.

Merista tennesseensis Hall and Clarke, 1894

Holotype, not designated, to be selected from UC 11957.

Referred specimens: UC 11957, three specimens.
Hall and Clarke, 1893, p. 71 cited.
Hall and Clarke, 1894, pl. 33, figs. 8, 9.
Hall and Clarke, 1895a, p. 365, pl. 42, figs. 1, 2, 5, 6.
Devonian, Lower Helderberg Group.
Hall locality 756, "West Tennessee. Mohr Collection"
Published locality, Perry County, Tennessee; Hall Collection.

Merista typa (Hall, 1859)
Referred specimen: UC 11962, a pedicle valve.
Hall and Clarke, 1893, pp. 71–72.
Hall and Clarke, 1895a, pl. 42, fig. 11.
Devonian, Lower Helderberg Group.
Hall locality 210, "Cumberland, Maryland"; Hall Collection.

Meristella ampla Stewart, 1922
Holotype: original designation UC 27487A, a pedicle valve.
Stewart *in* Branson, 1922, p. 249, pl. 66, fig. 9.

Referred specimens: UC 27487B, three single valves.
Stewart *in* Branson, 1922, p. 249, pl. 66, figs. 10, 11.
Devonian, Little Saline Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Meristella arcuata (Hall, 1857)
Referred specimen: UC 11973, a brachial valve.
Hall and Clarke, 1893, pp. 76 and 78.
Hall and Clarke, 1895a, pl. 44, fig. 5.
Devonian, Lower Helderberg Group.
Clarkesville, Albany County, New York (catalogue); Schoharie, New York (published); Hall Collection.

Meristella atoka (Girty, 1899)
Referred specimens: UC 21068, five specimens.
Tansey *in* Branson, 1922, p. 204, pl. 53, figs. 16–20.

Referred specimens: UC 21106, five specimens.
Tansey *in* Branson, 1922, p. 204, pl. 53, figs. 7–15.
Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Meristella bella (Hall, 1857)

Referred specimen: UC 21104.
Tansey *in* Branson, 1922, p. 203, pl. 53, figs. 3–6.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Meristella carinata Stewart, 1922

Holotype: original designation UC 27491A (not UC 27492).
Stewart *in* Branson, 1922, p. 250, pl. 66, fig. 17.

Referred specimens: UC 27491 (not UC 27492), seven specimens.
Stewart *in* Branson, 1922, p. 250, pl. 66, figs. 12–16, 18.

Referred specimens: UC 27492, four specimens.
Stewart *in* Branson, 1922, p. 250, pl. 66, figs. 20, 21.

Referred specimens: UC 27493, four specimens.
Stewart *in* Branson, 1922, p. 250, pl. 66, fig. 19.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Meristella elliptica Stewart, 1922

Holotype: original designation UC 27490A, a pedicle valve.
Stewart *in* Branson, 1922, p. 250, pl. 66, fig. 4.

Referred specimens: UC 27490, two specimens.
Stewart *in* Branson, 1922, p. 250, pl. 66, fig. 5.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Meristella laevis (Vanuxem, 1842)

Referred specimen: UC 10445.
S. Weller, 1903, p. 290, pl. 31, figs. 1–4.

Devonian, Coeymans Limestone.

S. Weller, 1903 locality 15C, near Hainesville, New Jersey; New Jersey Collection.

Referred specimen: UC 10450.
S. Weller, 1903, p. 290, pl. 31, figs. 5–8.
Devonian, Coeymans Limestone.
S. Weller, 1903 locality 37A, one-half mile northeast of Peter's Valley, New Jersey; New Jersey Collection.

Referred specimens: UC 11986, two single valves.
Hall and Clarke, 1893, pp. 76–78.
Hall and Clarke, 1895a, pl. 44, fig. 4.
Devonian, Lower Helderberg Group.
Near Clarkesville, Albany County, New York; Hall Collection.

Referred specimens: UC 21105, four specimens.
Tansey *in* Branson, 1922, pp. 202–203, pl. 52, figs. 34–44, pl. 53, figs. 1, 2.
Devonian, Bailey Limestone (chert).
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Meristella lata (Hall, 1859)

Referred specimen: UC 10474, a pedicle valve.
S. Weller, 1903, p. 359, pl. 47, fig. 20.
Devonian, Oriskany Formation.
Near Wallpack Center, New Jersey; New Jersey Collection.

Referred specimen: UC 11974, a pedicle valve.
Hall and Clarke, 1893, p. 78
Hall and Clarke, 1895a, pl. 44, fig. 12.
Devonian, Oriskany Sandstone.
Hall locality 255, "Albany County, New York"; Hall Collection.

Meristella lenta (Hall, 1867)

Referred specimens: UC 11972, two specimens.
Hall and Clarke, 1893, p. 78.
Hall and Clarke, 1895a, pl. 44, figs. 15, 17.
Devonian, Oriskany Sandstone.
De Cewville, Ontario, Canada; Hall Collection.

Meristella ovalis Stewart, 1922

Holotype: original designation UC 27489A, a brachial valve.
Stewart *in* Branson, 1922, pp. 250–251, pl. 66, fig. 6.

Referred specimens: UC 27489, two brachial valves.
Stewart *in* Branson, 1922, pp. 250–251, pl. 66, figs. 7, 8.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Meristella princeps (Hall, 1857)

Referred specimen: UC 21079.
Tansey *in* Branson, 1922, pp. 203–204, pl. 44, figs. 9–11.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: UC 21079 is stored with *Crania alsopi* Tansey, 1922.

Meristella walcotti Hall and Clarke, 1895

Referred specimen: UC 11968.
Hall and Clarke, 1895a, p. 365, pl. 43, figs. 16, 17.
Hall and Clarke, 1895b, p. 360, pl. 8, figs. 30, 31.
Hall and Clarke, 1895c, p. 360, pl. 8, figs. 30, 31.

Devonian, Oriskany Sandstone.

Hall locality 255, "Canada West, April, 1879. Collection purchased of Edmund De Cew. Including some Corniferous and Grit."

Published locality, Cayuga, Ontario, Canada; Hall Collection.

Remarks: UC 11968 is one of the specimens originally figured by Hall and Clarke, 1895. It is not known whether a holotype has been designated.

Meristina maria (Hall, 1863)

Referred specimen: UC 11970.
Hall and Clarke, 1893, p. 67.
Hall and Clarke, 1895a, pl. 41, fig. 14.

Silurian, Niagaran.

Milwaukee, Wisconsin; Hall Collection.

Referred specimen: UC 11971.
Hall and Clarke, 1893, p. 67.
Hall and Clarke, 1895a, pl. 41, fig. 17.
Boucot, Johnson and Staton *in* Moore, 1965, p. 656, text fig. 533,4d.

Silurian, Niagaran.

Hall locality a/109, "Cicero, Cook County, Illinois, 6 mi. southwest of Chicago. From W. C. Egan."

Published locality, Bridgeport, Illinois; Hall Collection.

See also: *Meristina tumida* (Dalman, 1828).

Meristina tumida (Dalman, 1828)

Referred specimen: UC 11967.
Hall and Clarke, 1893, p. 67.
Hall and Clarke, 1895a, pl. 41, fig. 4.

=*Meristina maria* (Hall, 1863)
Bassler, 1915, p. 799.

Silurian, Wenlock Limestone.

Hall locality 198, "Wenlock Edge, England, 1872"; Hall Collection.

Metaplasia plicata S. Weller, 1903

Holotype: UC 10473.
S. Weller, 1903, pp. 356–357, pl. 48, figs. 7–11.

Devonian, Oriskany.

S. Weller, 1903 locality 6A, near Montigue P. O., New Jersey; New Jersey Collection.

Metaplasis pyxidata (Hall, 1859)

Referred specimen: UC 27498, a pedicle valve.
Stewart *in* Branson, 1922, p. 247, pl. 65, fig. 14.

Devonian, Upper Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

?Nanothyris subrhomboidea (S. Weller, 1903)

See: *Centronella*? *subrhomboidea* S. Weller, 1903.

Nervostrophia rockfordensis (Fenton and Fenton, 1924)

See: *Leptostrophia rockfordensis* Fenton and Fenton, 1924.

Newberria claypolii Hall, 1891

Referred specimen: UC 37694, a pedicle valve.
Hall, 1891, pp. 97–98, pl. 5, fig. 9.

Hall and Clarke, 1895a, pl. 78, fig. 9.

= *Subrensselandia claypolii* (Hall, 1891)
Cloud, 1942, pp. 93–94.

Devonian, Hamilton Group.

Perry County, Pennsylvania; collected by Broadhead, Hall Collection.

Newberria missouriensis Swallow *in* Hall, 1891

Holotype, not designated, to be selected from UC 12467.

Referred specimens: UC 12467, two specimens.
Swallow *in* Hall, 1891, p. 97, pl. 5, figs. 10–12.
Hall and Clarke, 1893, p. 263.
Hall and Clarke, 1895a, pl. 78, figs. 21–23.

= *Rensselandia missouriensis* (Swallow *in* Hall, 1891)
Cloud, 1942, p. 97.

Devonian, Hamilton Group.

Moniteau County, Missouri; Hall Collection.

Nucleospira indianensis S. A. Miller, 1891

Holotype: UC 6135.
S. A. Miller, 1891, p. 79, pl. 13, figs. 13–15.
S. A. Miller, 1892, p. 689, pl. 13, figs. 13–15.

= *Parazyga hirsuta* (Hall, 1857)
Schuchert, 1897, p. 301.

Devonian, Hamilton.

Bunker Hill, Indiana; Gurley Collection.

Nucleospira rowleyi S. Weller, 1914

Holotype, not designated, to be selected from UC 6733.

Referred specimens: UC 6733, three specimens.
S. Weller, 1914, p. 454, pl. 82, figs. 43–48.

Mississippian, Louisiana Limestone.

Louisiana, Missouri; collected by S. Weller, 1896.

Nucleospira ventricosa (Hall, 1857)

Referred specimen: UC 10446.
S. Weller, 1903, p. 290, pl. 30, figs. 19–22.

Devonian, Coeymans Limestone.

S. Weller, 1903 locality 15C, near Hainesville, New Jersey; New Jersey Collection.

Referred specimens: UC 12375, two specimens.
Hall and Clarke, 1893, p. 145.
Hall and Clarke, 1894, pl. 38, figs. 22, 23.
Hall and Clarke, 1895a, pl. 48, figs. 2, 3.

Devonian, New Scotland Limestone.

Helderberg Mountains, New York; Hall Collection.

Referred specimens: UC 21110, six specimens.
Tansey *in* Branson, 1922, p. 202, pl. 52, figs. 21–30.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Nucleospira cf. **ventricosa** (Hall, 1857)

Referred specimens: UC 27494, two specimens.
Stewart *in* Branson, 1922, p. 240, pl. 66, figs. 1, 2.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Obolella polita (Hall, 1861)

Referred specimen: UC 11942.
Hall and Clarke, 1892a, pl. 2, figs. 37–39.

=*Dicellomus politus* (Hall, 1861)
Walcott, 1912, pp. 575–578.

Cambrian, Potsdam Sandstone.

Trempealeau, Wisconsin; Hall Collection.

Remarks: UC 11942 consists of two blocks of sandstone with many specimens on them; figures could have been based on any of the specimens.

Obolus? pulcher Matthew, 1889

Referred specimen: UC 11905.
Hall and Clarke, 1892a, p. 81, pl. 4K, fig. 22.

=*Botsfordia pulcher* (Matthew, 1889)
Walcott, 1912, p. 601.

Cambrian, St. John Group, Division 1, Band B.

Caton's Island, Kings County, New Brunswick; collected by G. F. Matthew, 1889, Hall Collection.

Obturamentella wadei (Dunbar, 1919)

See: *Wilsonia wadei* Dunbar, 1919.

Oehlertella pleurites (Meek, 1875)

Referred specimens: UC 11936, four specimens.

Hall and Clarke, 1892a, p. 125, pl. 4E, figs. 21–24, pl. 4F, figs. 19, 20.

Hall and Clarke, 1892b, pl. 5, figs. 5–8.

Rowell *in* Moore, 1965, p. 286, text figs. 179, 2a–c.

Mississippian, Waverly Group

Hall locality 348, "Newark, Ohio" (one specimen).

Hall locality a/385, "Water Works, Newark, Ohio. Bought of W. F. Cooper, Granville, Ohio, November, 1888. Ohio Waverly Series=Ohio Black Shale to top of Cuyahoga Shales." (three specimens); Hall Collection.

Oleneothyris harlani (Morton, 1829)

See: *Terebratula gorbyi* S. A. Miller, 1891.

Onniella meeki (S. A. Miller, 1875)

Referred specimen: PE 13903.

Richards and Shabica, 1969, pp. 838–841, text fig. 1A.

Referred specimen: PE 13904.

Richards and Shabica, 1969, pp. 838–841, text fig. 1B.

Referred specimen: PE 13905.

Richards and Shabica, 1969, pp. 838–841, text fig. 1C.

Referred specimen: PE 13906.

Richards and Shabica, 1969, pp. 838–841, text figs. 1D, 1E.

Ordovician, Richmond Group, Arnheim and Waynesville Formations.

On new State Route 101 at Brookville, Indiana (SW ¼, SE ½, sec. 16, T.9N, R.2W, Mt. Carmel Quadrangle).

Orbiculoidea batesvillensis S. Weller, 1897

Holotype, not designated, to be selected from UC 4963.

Referred specimens: UC 4963, two brachial valves.
S. Weller, 1897, p. 255, pl. 19, figs. 4, 5.
S. Weller, 1914, p. 42, pl. 1, figs. 19, 20.
Mississippian, Batesville Sandstone.
S. Weller, locality 2A, Batesville, Arkansas; collected by S. Weller, 1896.

Orbiculoidea convexa (Shumard, 1858)
Referred specimen: UC 7876, a dorsal valve.
Sayre, 1930, p. 93, pl. 4, figs. 1, 1a.
Pennsylvanian, Drum Limestone.
Kansas City, Missouri; Gurley Collection.

Orbiculoidea hardinensis Moore, 1928
Holotype, not designated, to be selected from UC 32122.

Referred specimens: UC 32122, nine specimens.
Moore, 1928, p. 262, pl. 11, figs. 1, 2, 5, 6.
Mississippian, Base of Hannibal Formation, Hamburg Shale.
Cedar Creek, two miles north of Hardin, Calhoun County, Illinois; collected by Moore.

Orbiculoidea herzeri Hall and Clarke, 1892
Holotype, not designated, to be selected from UC 11948, UC 11949.

Referred specimens: UC 11948, four specimens.
Hall and Clarke, 1892a, pp. 126 and 178.
Hall and Clarke, 1895b, p. 333, pl. 2, figs. 14, 17, 19.
Hall and Clarke, 1895c, p. 333, pl. 2, figs. 14, 17, 19.
=*Orbiculoidea pulchra* Hall and Clarke, 1892
Hall and Clarke, 1892a, pl. 4E, fig. 19, pl. 4F, figs. 9, 11.
Hall and Clarke, 1892b, pl. 5, fig. 11.
Mississippian, Cuyahoga Shale.
Berea, Ohio; Hall Collection.

Referred specimen: UC 11949, a single valve.
Hall and Clarke, 1892a, pp. 126 and 178.
Hall and Clarke, 1895b, p. 333, pl. 2, fig. 15.
Hall and Clarke, 1895c, p. 333, pl. 2, fig. 15.
=*Orbiculoidea pulchra* Hall and Clarke, 1892
Hall and Clarke, 1892a, pl. 4E, fig. 19, pl. 4F, figs. 9, 11, 30.
Hall and Clarke, 1892b, pl. 5, fig. 11.

Mississippian, Cuyahoga Shale.

Hall locality 502, "Newark, Ohio. Herzer Collection"; Hall Collection.

Orbiculoidea illinoisensis (S. A. Miller and Gurley, 1894)

See: *Discina illinoisensis* S. A. Miller and Gurley, 1894.

Orbiculoidea jervensis (Barrett, 1878)

Referred specimen: UC 10469, a single valve.
S. Weller, 1903, p. 343, pl. 45, fig. 8.

Devonian, Oriskany Formation.

S. Weller, 1903 locality 6A, near Montigue P. O., New Jersey; New Jersey Collection.

Orbiculoidea keokuk (Gurley, 1884)

Referred specimens: UC 14787, two specimens.
S. Weller, 1914, p. 41, pl. 1, figs. 16, 17.

Mississippian, Keokuk Group, Crawfordsville Shale.

Crawfordsville, Indiana; Gurley Collection.

See also: *Discina keokuk* Gurley, 1884.

Orbiculoidea minuta Mather, 1915

Holotype: original designation UC 16133A.
Mather, 1915, pp. 141–142, pl. 8, figs. 2–2a.

Referred specimen: UC 16133B.
Mather, 1915, pp. 141–142.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 134, near Fayetteville, Arkansas; Mather, donor.

Orbiculoidea missouriensis? (Shumard, 1858)

Referred specimen: UC 16580.
Mather, 1915, pp. 142–143, pl. 8, fig. 1.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 210, Sawney Hollow, Oklahoma; Mather, donor.

See also: *Orbiculoidea nitida* (Phillips, 1836).

Orbiculoidea munda (S. A. Miller and Gurley, 1894)
See: *Discina munda* S. A. Miller and Gurley, 1894.

Orbiculoidea nitida (Phillips, 1836)
Referred specimens: UC 7002, two specimens.
Hall and Clarke, 1892a, p. 125, pl. 4F, figs. 26–28.
=*Orbiculoidea missouriensis* (Shumard, 1858)
S. Weller, 1898, p. 289.
Pennsylvanian.
Grover, Johnson County, Missouri; Sampson Collection.

Orbiculoidea pulchra Hall and Clarke, 1892
See: *Orbiculoidea herzeri* Hall and Clarke, 1892.

Orbiculoidea sampsoni (S. A. Miller, 1891)
Referred specimens: UC 9674, five specimens.
S. Weller, 1914, p. 40, pl. 1, fig. 22.
Mississippian, Chouteau Limestone.
Pettis County, Missouri; Sampson Collection.
See also: *Discina sampsoni* S. A. Miller, 1891.

Orbiculoidea (Schizotreta) tenuilamellata (Hall, 1852)
Referred specimens: UC 11932, three single valves.
Hall and Clarke, 1892a, pp. 124–125, pl. 4E, figs. 10, 11, pl. 4F, figs. 2–6.
=*Schizotreta tenuilamellata* (Hall, 1852)
Bassler, 1915, p. 1147.
Silurian, Niagara Group.
Hall locality 194, "Sponges, Graptolites, Dictyonema etc. given by Col. Grant of Hamilton, C. W. [Canada West], 1878, collected in the vicinity of Hamilton, C.W."; Hall Collection.

Orbiculoides sp.
Referred specimen: UC 12281A, a brachial valve.
S. Weller, 1914, pl. 1, fig. 18.
Mississippian, Keokuk Group, *Productus magnus* Beds.
Ste. Genevieve County, Missouri; Gurley Collection.
Remarks: UC 12281A is attached to the shell of *Productus magnus* Meek and Worthen, 1861, UC 12281.

Referred specimen: UC 22376, a pedicle valve.
Roy and Croneis, 1931, pp. 246–247, pl. 44, fig. 7.
Silurian, Niagaran, Racine Dolomite.
Calumet feeder, Blue Island, Illinois; collected by Link.

Orbinaria concentrica (Hall, 1857)
See: *Productella concentrica* (Hall, 1857).

Orbinaria pyxidata (Hall, 1858)
See: *Productella pyxidata* (Hall, 1858).

Oriskania navicella Hall and Clarke, 1893
Holotype: designated by Cloud, 1942, p. 71, UC 12469A.
Hall and Clarke, 1893, pp. 269–270.
Hall and Clarke, 1894, pp. 854–855, pl. 52, figs. 11–13.
Hall and Clarke, 1895a, p. 370, pl. 79, figs. 25–27.
Hall and Clarke, 1895b, p. 371, pl. 14, figs. 1–3.
Hall and Clarke, 1895c, p. 371, pl. 14, figs. 1–3.
Cloud, 1942, pp. 69–71.

Referred specimen: UC 12469B.
Hall and Clarke, 1893, pp. 269–270, text figs. 181–183.
Hall and Clarke, 1894, pp. 854–855, text figs. 463–465.
Hall and Clarke, 1895a, p. 370.
Cloud, 1942, pp. 69–71.
Devonian, Oriskany Sandstone.
Rondout, New York; Hall Collection.

Orthis bellula Meek, 1873
Holotype, not designated, to be selected from UC 1096.

Referred specimens: UC 1096, seven specimens.
Meek, 1873, pp. 103–104, pl. 8, figs. 5a–f.
= *Dalmanella bellula* (Meek, 1873)
Hall and Clarke, 1892a, p. 224.
= *Dalmanella* (*Bathycoelia*) *bellula* (Meek, 1873)
Foerste, 1909a, p. 221.
= *Pionodema bellula* (Meek, 1873)
Foerste, 1912, p. 139.
Ordovician, Cincinnatian Series.

Cincinnati, Ohio; James Collection.

Orthis cyclus James, 1874

Holotype, not designated, to be selected from UC 170.

Referred specimens: UC 170, 24 specimens.
James, 1874a, pp. 19–20.
= *Dalmanella emacerata* (Hall, 1860)
Bassler, 1915, p. 378.
= *Dalmanella cyclus* (James, 1874) museum catalogue
Ordovician, Cincinnatian Series.
Cincinnati, Ohio; James Collection.

Orthis (Dalmanella) testudinaria Dalman, 1828

Referred specimens: UC 12335, three specimens.
Hall and Clarke, 1892a, p. 205, pl. 5B, figs. 32–35.
= *Dalmanella testudinaria* (Dalman, 1828)
Bassler, 1915, pp. 381–382.
Ordovician, Cincinnatian Series.
Oxford, Ohio [catalogue]; Cincinnati, Ohio [published]; Hall Collection.

Orthis (Dinorthis) loricula Hall and Clarke, 1892

See: *Orthis* (*Plaesiomys*) *loricula* Hall and Clarke, 1892.

Orthis (Dinorthis) subquadrata (Hall, 1847)

See: *Orthis* (*Plaesiomys*) *subquadrata* Hall, 1847.

Orthis emacerata var. **multisecta** Meek, 1873

Holotype, not designated, to be selected from UC 1099.

Referred specimens: UC 1099, 75 specimens.
Meek, 1873, p. 112, pl. 8, figs. 3a–d.
= *Dalmanella multisecta* (Meek, 1873)
Bassler, 1915, p. 380.
Ordovician, Cincinnatian Series.
Cincinnati, Ohio; James Collection.

Orthis flabellites Foerste, 1889

Referred specimen: UC 12339, a pedicle valve.

Hall and Clarke, 1892a, pp. 221 and 227, pl. 20, fig. 1.

=*Dolerorthis flabellites* (Foerste, 1889)
Schuchert and Cooper, 1932, pp. 88–89.

Silurian, Niagaran.

Hamilton, Ontario, Canada; Hall Collection.

Referred specimens: UC 10401, two single valves.
S. Weller, 1903, pp. 231–232, pl. 20, fig. 20.

Silurian, Decker Ferry.

S. Weller, 1903 locality 2A[8], William Nearpass Quarry, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Referred specimen: UC 32942, a single valve.
Fisher, 1925, pl. 4, fig. 6.

Silurian, Niagaran.

Joliet, Illinois; S. Weller Collection.

Remarks: *O. flabellites*=*Dolerorthis flabellites* (Foerste, 1889)
Schuchert and Cooper, 1932, pp. 88–89.

Orthis halli Safford, 1869 (?=*Orthis* (*Orthostrophia*) *strophomenoides* Hall, 1857)

Referred specimen: UC 12333.
Hall and Clarke, 1892a, p. 200, pl. 5A, figs. 22, 23.

=*Orthostrophia strophomenoides* (Hall, 1857)
Schuchert, 1897, p. 295.

Devonian, Lower Helderberg Group.

Perry County, Tennessee; Hall Collection.

Orthis laurentina (Billings, 1857)

See: *Billingsella? laurentina* (Billings, 1857).

Orthis(?) linneyi James, 1881

Holotype, not designated, to be selected from UC 114.

Referred specimens: UC 114, two specimens.
James, 1881, p. 41.

=*Orthorhynchula linneyi* (James, 1881)
Hall and Clarke, 1893, pp. 181–182.

Ordovician, Cincinnati Group.

Boyle County, Kentucky; James Collection, collected by Linney.

Orthis(?) morrowensis James, 1874

Holotype: UC 2325A.
James, 1874a, p. 21.

= *Platystrophia morrowensis* (James, 1874)
Foerste, 1910, pp. 60–61, pl. 6, figs. 11a–e.

Referred specimens: UC 2325, three specimens.
James, 1874a, p. 21.

= *Platystrophia morrowensis* (James, 1874)
Foerste, 1910, pp. 60–61, pl. 6, figs. 12a and b.

Ordovician, Cincinnatian Series, Corryville Bed.

Warren County, Ohio; James Collection.

Orthis neglecta James, 1879

Holotype, not designated, to be selected from UC 2399.

Referred specimens: UC 2399, six specimens.
James, 1879, p. 26.

= *Plectorthis neglecta* (James, 1879)
Foerste, 1910, p. 52, pl. 6, figs. 1A–D.

Ordovician, Cincinnatian Series, Mt. Hope Beds.

Cincinnati, Ohio; James Collection.

Orthis (Orthostrophia) strophomenoides Hall, 1857

Referred specimen: UC 11910, a pedicle valve.
Hall and Clarke, 1892a, p. 200, pl. 5A, figs. 26, 27.

= *Orthostrophia strophomenoides* (Hall, 1857)
Schuchert, 1897, p. 295.

Devonian, Lower Helderberg Group.

Near Clarkesville, New York; Hall Collection.

Orthis pepina Hall, 1863

Referred specimens: UC 11956, four specimens on three pieces of sandstone.
Hall, 1863, pp. 134–135, pl. 6, figs. 23–26.

= *Billingsella pepina* (Hall, 1863)
Hall and Clarke, 1892a, p. 230, pl. 7, figs. 16–19.

= *Billingsella coloradoensis* (Shumard, 1860)
Schuchert, 1897, p. 158.
Walcott, 1912, pp. 751–753.

Cambrian, Potsdam Sandstone.

Chippewa River, Wisconsin; Hall Collection.

Remarks: UC 11956 consists of four of the five original specimens figured by Hall, 1863.

Orthis (Plaesiomys) loricula Hall and Clarke, 1892

Referred specimen: UC 12334, a pedicle valve.
Hall and Clarke, 1892a, p. 341, pl. 5A, fig. 34.
Hall and Clarke, 1895b, p. 339, pl. 4, fig. 9.
Hall and Clarke, 1895c, p. 339, pl. 4, fig. 9.

=*Orthis* (*Dinorthis*) *loricula* Hall and Clarke, 1892
Winchell and Schuchert, 1895, pp. 420–422.

=*Dinorthis* (*Valcourea*) *deflecta* (Conrad, 1843)
Bassler, 1915, pp. 442–443.

=*Valcourea loricula* (Hall and Clarke, 1892)
Schuchert and Cooper, 1932, p. 97.

=*Campylorthis loricula* (Hall and Clarke, 1892)
Ulrich and Cooper, 1942, p. 622.

=*Dinorthis loricula* (Hall and Clarke, 1892) museum catalogue

Ordovician, Galena Limestone.

Fountain, Minnesota; Hall Collection.

Remarks: UC 12334 is one of the specimens originally figured by Hall and Clarke, 1892. It is not known whether a holotype has been designated.

Orthis (Plaesiomys) subquadrata Hall, 1847

Referred specimen: UC 12332, a pedicle valve.
Hall and Clarke, 1892a, p. 196, pl. 5A, fig. 17.
Hall and Clarke, 1892b, pl. 9, fig. 19.

=*Orthis* (*Dinorthis*) *subquadrata* Hall, 1847
Winchell and Schuchert, 1895, pp. 428–431.

=*Dinorthis subquadrata* (Hall, 1847)
Cumings, 1908, p. 904, pl. 34, fig. 1b.

=*Dinorthis* (*Plaesiomys*) *subquadrata* (Hall, 1847)
Bassler, 1915, pp. 445–446.

Ordovician, Cincinnatian Series, Richmond.

Oxford, Ohio; Hall Collection.

Remarks: *O. subquadrata* = *Plaesiomys* (*Plaesiomys*) *subquadrata* (Hall, 1847) Williams *in* Moore, 1965, p. 319.

Orthis (Platystrophia) cypha James, 1874

Holotype: UC 2326.
James, 1874a, p. 20.

= *Platystrophia lynx* var. *cypha* (James, 1874)
Cumings, 1908, p. 917.

= *Platystrophia cypha* (James, 1874)
Foerste, 1910, pp. 61–65, pl. 4, figs. 10a and b, pl. 5, fig. 11.

Ordovician, Cincinnatian Series, Maysville Group.

Warren County, Ohio; James Collection.

Orthis (Platystrophia) laticosta Meek, 1873

Referred specimens: UC 1108, 16 specimens.
Meek, 1873, pp. 116–117.

= *Platystrophia laticosta* (Meek, 1873)
Bassler, 1915, p. 993.

Ordovician, Cincinnatian Series.

Cincinnati, Ohio; James Collection.

Remarks: UC 1108 includes part of the specimens originally used by Meek, 1873; however, none were figured. It is not known whether a holotype has been designated.

See also: *Platystrophia biforata laticosta* (Meek, 1873).

Orthis (Plectorthis) whitfieldi Winchell, 1881

See: *Orthis whitfieldi* Winchell, 1881.

Orthis (Rhipidomella) burlingtonensis Hall, 1858

Referred specimen: UC 11893, a pedicle valve.
Hall and Clarke, 1892a, p. 225, pl. 6A, fig. 13.

= *Rhipidomella burlingtonensis* (Hall, 1858)
S. Weller, 1914, pp. 149–151, pl. 21, fig. 5.

Mississippian, Burlington Limestone.

Sagetown, Illinois; Hall Collection.

Orthis (Rhipidomella) dubia Hall, 1856

Referred specimen: UC 7846, a pedicle valve.
Hall and Clarke, 1892a, p. 210, pl. 6A, fig. 20.
Hall and Clarke, 1892b, pl. 12, fig. 11.

= *Rhipidomella dubia* (Hall, 1856)
S. Weller, 1914, pp. 160–161, pl. 83, fig. 9.

Mississippian, Salem Limestone [catalogue]; St. Louis Group [published].

Colesburg, Kentucky [catalogue]; Litchfield, Kentucky [published]; Gurley Collection.

Referred specimens: UC 11927, a brachial and a pedicle valve.
Hall and Clarke, 1892a, p. 210, pl. 6A, figs. 19, 21.
Hall and Clarke, 1892b, pl. 12, fig. 12.

= *Rhipidomella dubia* (Hall, 1856)
S. Weller, 1914, pp. 160–161, pl. 83, fig. 10.

Mississippian, Salem Limestone [catalogue]; St. Louis Group [published].

Hall locality 360a, "Spergen Hill. Herzer Collection," Indiana, pedicle valve.

Hall locality 375, "Lanesville, Indiana (G. K. Greene) Nov. 1888." brachial valve; Hall Collection.

Remarks: *O. dubia* = *Rhipidomella* (*Perditocardina*) *dubia* (Hall, 1856)
Schuchert and Cooper, 1931, p. 246.
O. dubia= *Perditocardina dubia* (Hall, 1856)
Wright *in* Moore, 1965, p. 343.

Orthis (Rhipidomella) missouriensis Swallow, 1860

Referred specimen: UC 11909, a pedicle valve.
Hall and Clarke, 1892a, pl. 6A, fig. 17.

= *Rhipidomella missouriensis* (Swallow, 1860)
S. Weller, 1914, pp. 148–149.
Cooper *in* Shimer and Shrock, 1944, p. 355, pl. 139, fig. 15.

Mississippian, Louisiana Limestone.

Pike County, Missouri; Hall Collection.

Orthis (Schizophoria) impressa Hall, 1843

Referred specimen: UC 11917, a single valve.
Hall and Clarke, 1892a, p. 212, pl. 6A, fig. 27.
Hall and Clarke, 1892b, pl. 11, fig. 23.

= *Schizophoria striatula* (Schlotheim, 1813)
Schuchert, 1897, p. 375.

= *Schizophoria impressa* (Hall, 1843) Museum catalogue

Devonian, Chemung

Lawrenceville, Tioga County, Pennsylvania; Hall Collection.

Referred specimen: UC 11918, a single valve.
Hall and Clarke, 1892a, p. 212, pl. 6A, fig. 26.
=*Schizophoria striatula* (Schlotheim, 1813)
Schuchert, 1897, p. 375.
=*Schizophoria impressa* (Hall, 1843) Museum catalogue
Devonian, Chemung.
Near Mansfield, Tioga County, Pennsylvania; Hall Collection.

Orthis subnodosa Hall, 1879
Holotype: UC 11987, a pedicle valve.
Hall, 1879b, p. 14.
Hall, 1882, p. 286, pl. 27, fig. 17.
Hall, 1883a, p. 70.
Lesley, 1889, p. 535, text fig.
Silurian, Niagaran.
Hall locality 196, "Waldron, Indiana. Collection purchased of Mr. J. T. Duty, 1878."; Hall Collection.

Orthis whitfieldi Winchell, 1881
Referred specimens: UC 8114, three specimens.
Winchell, 1881, pp. 115–117.
=*Orthis* (*Plectorthis*) *whitfieldi* Winchell, 1881
Winchell and Schuchert, 1895, pp. 437–439, pl. 33, figs. 8, 9.
=*Austinella whitfieldi* (Winchell, 1881)
Foerste, 1912, p. 131, pl. 8, fig. 9.
=*Plectorthis* (*Austinella*) *whitfieldi* (Winchell, 1881) Museum catalogue
Ordovician, Richmond Group, Maquoketa Shale.
Spring Valley, Minnesota; collected by Winchell, Gurley Collection.
Remarks: UC 8114 includes three of the original specimens used by Winchell, 1881. It is not known whether a holotype has been designated.

Orthis sp.? cf. **Orthis (Rhipidomella) penelope** Hall, 1860
Referred specimen: UC 11919, a single valve.
Hall and Clarke, 1892a, pl. 6A, fig. 11.
=*Rhipidomella* sp. cf. *R. penelope* (Hall, 1860) Museum catalogue

Mississippian, Waverly Group, top of Division II.

Hall locality a/382, "Granville, Licking County, Ohio. Bought of W. Cooper, Granville, Ohio, November, 1888. Ohio Waverly Series = Ohio Black Shale to top of Cuyahoga Shales."; Hall Collection.

Orthorhynchula linneyi (James, 1881)

Referred specimens: UC 12399, two specimens.

Hall and Clarke, 1893, pp. 181–182.

Hall and Clarke, 1895a, pl. 56, figs. 10–13, 19.

Bassler, 1909, pl. 14, figs. 10–12.

Ordovician, Cincinnatian Series.

Hall locality 134a, "Nashville, Tennessee. Herzer Collection"; Hall Collection.

See also: *Orthis*(?) *linneyi* James, 1881.

Orthostrophia strophomenoides (Hall, 1857)

Referred specimen: UC 10453.

S. Weller, 1903, p. 303, pl. 34, figs. 6–8.

Devonian, New Scotland.

S. Weller, 1903 locality 109A, Flatbrookville, New Jersey; New Jersey Collection.

See also: *Orthis* (*Orthostrophia*) *strophomenoides* Hall, 1857. *Orthis halli* Safford, 1869 (?=*Orthis* (*Orthostrophia*) *strophomenoides* Hall, 1857).

Orthotetes crassa (Meek and Hayden, 1858)

See: *Derbya crassa* (Meek and Hayden, 1858).

Orthotetes kaskaskiensis (McChesney, 1860)

"Cotypes": UC 53082 and UC 53083.

See: *Orthis kaskaskiensis* McChesney, 1860 in catalogue of casts.

Referred specimens: UC 8647, two specimens.

S. Weller, 1914, pp. 77–78, pl. 6, figs. 13, 14.

Mississippian, Chester Group.

Meade County, Kentucky; Gurley Collection.

Referred specimens: UC 8648, three specimens.

S. Weller, 1914, pp. 77–78, pl. 6, figs. 9–12.

Mississippian, Chester Group.

Randolph County, Illinois; Gurley Collection.

Referred specimen: UC 10920A.
S. Weller, 1914, pp. 77–78, pl. 6, figs. 1–4.

Mississippian, Pella Beds.

Pella, Iowa; Van Horne Collection.

Referred specimen: UC 48329.
Easton, 1943, p. 146.

Mississippian, Pitkin Formation.

Middle of Pitkin Formation in bluffs above Arkansas Highway 71, three-fourths mile southeast of West Fork, Arkansas; Easton Collection.

Referred specimen: UC 51840, a brachial valve.
Nitecki and Sadlick, 1968, pp. 403–405, pl. 58, fig. 1.

Mississippian, Chester Series, Glen Dean Limestone.

Walker Museum locality no. 619, near Preston, Randolph County, Illinois; collected by S. Weller.

Orthotetes kaskaskiensis? (McChesney, 1860)

Referred specimen: UC 14760.
S. Weller, 1914, pp. 77–78, pl. 6, fig. 15.

Mississippian, Chester Group, Base of Okaw Limestone.

City quarry at Red Bud, Illinois; collected by S. Weller, 1907.

Referred specimen: UC 14822, a single valve.
S. Weller, 1916, pp. 245–246, pl. 16, fig. 1.

Mississippian, Ste. Genevieve Limestone.

Fountain Creek, near Waterloo, Illinois; collected by S. Weller, 1906.

Orthotetes keokuk (Hall, 1858)

Referred specimen: UC 363, a pedicle valve.
S. Weller, 1914, pp. 75–77, pl. 7, fig. 4.

Mississippian, Residual Chert.

Springfield, Missouri; Weller Collection.

Referred specimen: UC 8652.
S. Weller, 1914, pp. 75–77, pl. 7, figs. 1–3.

Mississippian, Keokuk Limestone.

Keokuk, Iowa; Gurley Collection.

Orthotetes lens (White, 1862)

Referred specimen: UC 11896, a pedicle valve.
Hall and Clarke, 1892a, pl. 11A, figs. 16, 17.
Hall and Clarke, 1892b, pl. 16, figs. 12, 13.

=*Schuchertella lens* (White, 1862)
S. Weller, 1914, pp. 55–56.

Mississippian, Louisiana Limestone [catalogue]; Chouteau Limestone [published].

Pike County, Missouri; Hall Collection.

Orthotetes robusta (Hall, 1858)

Referred specimen: UC 16096, a brachial valve.
Mather, 1915, pp. 146–147, pl. 9, fig. 2.

Pennsylvanian, Hale Formation.

Mather, 1915 station 149, East Mountain, Fayetteville, Arkansas; Mather, donor.

Referred specimen: UC 16097, a pedicle valve.
Mather, 1915, pp. 146–147, pl. 9, figs. 3–3a.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 153, near Fayetteville, Arkansas; Mather, donor.

See also: *Derbya robusta*? (Hall, 1858).

Orthotetes? sp.

Referred specimen: UC 16098, a brachial valve.
Mather, 1915, p. 147, pl. 9, fig. 8.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 135, near Fayetteville, Arkansas; Mather, donor.

Orthothetes chemungensis Conrad, 1842

Referred specimens: UC 11353, nine specimens.
S. Weller, 1906, pp. 440–441, pl. 6, figs. 5, 6.

=*Schuchertella* sp.
S. Weller, 1914, pl. 7, figs. 9, 10.

Mississippian, Glen Park Formation.

S. Weller, 1906 locality 11, Glen Park, Missouri; collected by S. Weller.

Orthothetes deckerensis S. Weller, 1903

Holotype, not designated, to be selected from UC 10397 and UC 10398.

Referred specimen: UC 10397, a pedicle valve.
S. Weller, 1903, pp. 229–230, pl. 20, fig. 7.

=*Schuchertella deckerensis* (S. Weller, 1903)
Schuchert and Maynard, 1913, pp. 329–330.

Silurian, Decker Ferry.

S. Weller, 1903 locality 8A, "on the next farm south of that upon which the William Nearpass Quarry is located," two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Referred specimen: UC 10398, a brachial valve.
S. Weller, 1903, pp. 229–230, pl. 20, fig. 3.

=*Schuchertella deckerensis* (S. Weller, 1903)
Schuchert and Maynard, 1913, pp. 329–330.

Silurian, Decker Ferry.

S. Weller, 1903 locality $2A^3$, William Nearpass Quarry, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Orthothetes deformis var. **sinuata** Hall and Clarke, 1892

Holotype: UC 11915.
Hall and Clarke, 1892a, pl. 20, figs. 8, 9.

=*Schuchertella sinuata* (Hall and Clarke, 1892)
Schuchert and Maynard, 1913, p. 331.

Devonian, Lower Helderberg Group.

Cumberland, Maryland; Hall Collection.

Orthothetes inaequalis (Hall, 1858)

Referred specimen: UC 5928, a pedicle valve.
S. Weller, 1900a, p. 66, pl. 1, fig. 18.

=*Schellwienella inaequalis* (Hall, 1858)
S. Weller, 1914, pp. 61–62.

Mississippian, Chonopectus Sandstone.

Burlington, Iowa; S. Weller Collection.

Referred specimens: UC 6662, three specimens.
S. Weller, 1901, pp. 159–160, pl. 14, figs. 16–18.
=*Schellwienella inaequalis* (Hall, 1858)
S. Weller, 1914, pp. 61–62, pl. 3, fig. 14.
Mississippian, Kinderhook Bed no. 5.
Burlington, Iowa; S. Weller Collection.

Orthothetes interstriatus (Hall, 1852)
Referred specimens: UC 10396, a pedicle and a brachial valve.
S. Weller, 1903, p. 229, pl. 20, figs. 8, 9.
=*Schuchertella interstriata* (Hall, 1852)
Grabau and Shimer, 1909, p. 228.
Silurian, Decker Ferry.
S. Weller, 1903 locality $2A^{12}$, William Nearpass Quarry, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Orthothetes prava (Hall, 1858)
Referred specimen: UC 11898, a single valve.
Hall and Clarke, 1892a, p. 255, pl. 11A, fig. 13.
=*Schuchertella prava* (Hall, 1858) Museum catalogue
Devonian, Hackberry Stage.
Hackberry Grove, Iowa; Hall Collection.

Orthothetes rubra S. Weller, 1909
=*Schuchertella rubra* (S. Weller, 1909)
S. Weller, 1914, pp. 56–57, pl. 3, figs. 10, 11.
Holotype: UC 13911.
S. Weller, 1909, p. 294, pl. 12, fig. 5.
Referred specimen: UC 13911A, a pedicle valve.
S. Weller, 1909, p. 294.
Mississippian, Fern Glen Formation.
S. Weller locality 9, near Kimmswick, Missouri; collected by S. Weller, 1898.
Referred specimen: UC 13910.
S. Weller, 1909, p. 294, pl. 12, fig. 4.
=Holotype of *Schuchertella fernglenensis* S. Weller, 1914
S. Weller, 1914, pp. 54–55, pl. 3, figs. 12, 13.

Mississippian, Fern Glen Formation.

S. Weller locality 22, Fern Glen, Missouri; collected by S. Weller, 1908.

Orthothetes sp.

Referred specimen: UC 6671, a brachial valve.
S. Weller, 1901, p. 181, pl. 16, fig. 1.

= "Cotype" of *Schellwienella planumbona* S. Weller, 1914
S. Weller, 1914, pp. 65–66, pl. 3, fig. 22.

Mississippian, Kinderhook Bed no. 6.

Burlington, Iowa; Weller Collection.

Ovatia laevicostus (White, 1860)

See: *Productus laevicostus* White, 1860.

Ovatia ovata (Hall, 1858)

See: *Productus ovatus* Hall, 1858.

Ovatia ovata var. **latior** (Snider, 1915)

See: *Productus ovatus* var. *latior* Snider, 1915.

Ovatia ovata var. **minor** (Snider, 1915)

See: *Productus ovatus* var. *minor* Snider, 1915.

Paraphorhynchus elongatum S. Weller, 1905

Holotype, not designated, to be selected from UC 7800.

Referred specimens: UC 7800, 13 specimens.
S. Weller, 1905a, pp. 261–262, pl. 1, figs. 1–5.

Mississippian, Kinderhook Limestone.

South Fabius River, in southeast corner of Knox County, Missouri; Greger Collection.

Paraphorhynchus striatocostatum (Meek and Worthen, 1868)

Referred specimen: UC 10784.
S. Weller, 1905a, pp. 262–263, pl. 1, figs. 6–8.

= *Paryphorhynchus striatocostatum* (Meek and Worthen, 1868)
S. Weller, 1914, pp. 189–190, pl. 26, figs. 15–19.

Mississippian, Kinderhook Limestone.

Pike County, Illinois; Gurley Collection.

Remarks: *Paryphorhynchus* S. Weller, 1914 *nom. van.*= *Paraphorhynchus* S. Weller, 1905.
McLaren *in* Moore, 1965, p. 586.
See also: *Pugnax missouriensis* (Shumard, 1855) UC 12421.
Pugnax striatocostata (Meek and Worthen, 1868) UC 6658.

Paraphorhynchus transversum S. Weller, 1905
Holotype, not designated, to be selected from UC 10548 and UC 10785.

Referred specimens: UC 10548, two pedicle valves.
S. Weller, 1905a, p. 264, pl. 1, fig. 12.
= *Paryphorhynchus transversum* (S. Weller, 1905)
S. Weller, 1914, pp. 188–189, pl. 26, fig. 23.
Mississippian, Kinderhook Sandstone Bed no. 2.
Kinderhook, Illinois; collected by S. Weller, 1902.

Referred specimen: UC 10785.
S. Weller, 1905a, p. 264, pl. 1, figs. 13–15.
= *Paryphorhynchus transversum* (S. Weller, 1905)
S. Weller, 1914, pp. 188–189.
Mississippian, Chonopectus Sandstone.
Burlington, Iowa; Gurley Collection.
Remarks: *Paryphorhynchus* S. Weller, 1914 *nom. van.*= *Paraphorhynchus* S. Weller, 1905.
McLaren *in* Moore, 1965, p. 586.

Parastrophia hemiplicata (Hall, 1847)
Referred specimen: UC 12435.
Hall and Clarke, 1893, pp. 221–223.
Hall and Clarke, 1895a, pl. 63, figs. 1, 3.
= *Camerella hemiplicata* (Hall, 1847)
Schuchert and Cooper, 1932, pp. 167–168.
Ordovician, Trenton Limestone.
Jacksonburg, New York; Hall Collection.

Referred specimen: UC 10307.
S. Weller, 1903, p. 158, pl. 10, figs. 11–14.
Ordovician, Trenton Limestone.
S. Weller, 1903 locality 136B, north end of Drakes Pond, one mile southeast of Newton, New Jersey; New Jersey Collection.

Remarks: *P. hemiplicata=Camerella hemiplicata* (Hall, 1847)
Schuchert and Cooper, 1932, p. 168.
P. hemiplicata = Parastrophina hemiplicata (Hall, 1847)
Biernat *in* Moore, 1965, p. 535.

Parastrophia reversa (Billings, 1857)
Referred specimens: UC 12436, two specimens.
Hall and Clarke, 1893, p. 221.
Hall and Clarke, 1895a, pl. 63, figs. 8–10, 12–14.
Silurian, Anticosti Group.
Anticosti Island; Hall Collection.
Remarks: *P. reversa= Parastrophinella reversa* (Billings, 1857)
Schuchert and Cooper, 1932, p. 169.

Parastrophina hemiplicata (Hall, 1847)
See: *Parastrophia hemiplicata* (Hall, 1847).

Parastrophinella reversa (Billings, 1857)
See: *Parastrophia reversa* (Billings, 1857).

Parazyga hirsuta (Hall, 1857)
See: *Nucleospira indianensis* S. A. Miller, 1891.

Paryphorhynchus striatocostatum (Meek and Worthen, 1868)
See: *Paraphorhynchus striatocostatum* (Meek and Worthen, 1868).
Pugnax missouriensis (Shumard, 1855).
Pugnax striatocostata (Meek and Worthen, 1868).

Paryphorhynchus transversum (S. Weller, 1905)
See: *Paraphorhynchus transversum* S. Weller, 1905.

Pentamerella arata (Conrad, 1841)
Referred specimens: UC 12455, six specimens.
Hall and Clarke, 1893, p. 245.
Hall and Clarke, 1895a, pl. 71, figs. 21–23.
Devonian, Onondaga [catalogue]; Corniferous Limestone [published].

Hall locality 264, "a collection of corals made by C. Schuchert, June, 1889, 3½ miles south of Junction City, Kentucky. C.S.R.R."

See also: *Gypidula comis* (Owen, 1852).

Pentamerella dubia (Hall, 1860)

Referred specimens: UC 12934, two specimens.
Hall and Clarke, 1893, p. 242.
Hall and Clarke, 1894, pl. 48, figs. 11–15.
Hall and Clarke, 1895a, pl. 71, figs. 32–38.

Devonian, Hamilton Group.

Littleton, Iowa; Hall Collection.

Pentameroides subrectus (Hall and Clarke, 1893)

See: *Pentamerus oblongus* var. *subrectus* Hall and Clarke, 1893.

Pentamerus circularis S. Weller, 1903

Holotype, not designated, to be selected from UC 10404.

Referred specimens: UC 10404, three single valves.
S. Weller, 1903, p. 233, pl. 20, figs. 17–19.

Silurian, Decker Ferry.

S. Weller, 1903 locality 2A[8], William Nearpass Quarry, New Jersey, two miles south of Tri-States, New York; New Jersey Collection.

Pentamerus colletti S. A. Miller, 1891

Holotype, not designated, to be selected from UC 6060.

Referred specimens: UC 6060, two specimens.
S. A. Miller, 1891, pp. 77–78, pl. 13, figs. 5, 6.
S. A. Miller, 1892, pp. 687–688, pl. 13, figs. 5, 6.

=*Conchidium colletti* (S. A. Miller, 1891)
Schuchert and Cooper, 1932, p. 181.

Silurian, Waterline Group.

Kokomo, Indiana; Hall Collection.

Pentamerus cylindricus Hall and Whitfield, 1872

See: *Pentamerus oblongus* var. *cylindricus* Hall and Whitfield, 1872.

Pentamerus laevis Sowerby, 1813

See: *Pentamerus oblongus* Sowerby, 1812; UC 12449.

Pentamerus oblongus Sowerby, 1812

Referred specimens: UC 12330, three specimens.
Hall and Clarke, 1893, pp. 236–240.
Hall and Clarke, 1895a, pl. 68, figs. 3–5.
Schuchert and Cooper, 1932, p. 177.
Silurian, Niagaran Dolomite.
Hall locality 644, "Yellow Springs, Ohio. from Prof. Orton, 1850?"; Hall Collection.

Referred specimen: UC 12447.
Hall and Clarke, 1893, pp. 236–240.
Hall and Clarke, 1895a, pl. 68, fig. 2.
Schuchert and Cooper, 1932, p. 177.
Silurian, Niagaran Group, Clinton Formation.
Hall locality a/162, "Rochester, New York"; Hall Collection.

Referred specimen: UC 12449.
Hall and Clarke, 1893, pp. 236–240.
Hall and Clarke, 1895a, pl. 69, fig. 1.
= *Pentamerus laevis* Sowerby, 1812
Cooper *in* Shimer and Shrock, 1944, p. 305, pl. 116, fig. 8.
Silurian, Niagaran Dolomite.
Richmond, Indiana; Hall Collection.
Remarks: *P. laevis*= *Pentamerus oblongus* Sowerby, 1812
Schuchert and Cooper, 1932, pp. 177–178.

Referred specimen: UC 12450.
Hall and Clarke, 1893, pp. 236–240.
Hall and Clarke, 1895a, pl. 69, figs. 4, 5.
Schuchert and Cooper, 1932, p. 177.
Silurian, Niagaran.
Jones County, Iowa; Hall Collection.

Referred specimen: UC 13210.
Hall and Clarke, 1893, pp. 236–240.
Hall and Clarke, 1895a, pl. 69, fig. 6.
Schuchert and Cooper, 1932, p. 177.

Silurian, Niagaran.

Hall locality 27/17, "A collection of Brachiopoda from a number of localities in Iowa, sent by S. Calvin. Lower number for label."

Published locality, Monmouth, Iowa; Hall Collection.

Referred specimen: UC 13211.

Hall and Clarke, 1893, pp. 236–240.

Hall and Clarke, 1895a, pl. 69, fig. 14.

Schuchert and Cooper, 1932, p. 177.

Silurian, Niagaran.

"Among R. R. ballast at Indianapolis, brought from unknown locality farther north. Very likely from the region of Richmond, Indiana"; Hall Collection.

Referred specimen: UC 13212.

Hall and Clarke, 1893, pp. 236–240.

Hall and Clarke, 1895a, pl. 69, fig. 13.

Schuchert and Cooper, 1932, p. 177.

Silurian, Niagaran.

?Northern Indiana; Hall Collection.

Pentamerus oblongus var. **cylindricus** Hall and Whitfield, 1872

Referred specimen: UC 12448.

Hall and Clarke, 1895a, pl. 68, figs. 7, 8.

= *Pentamerus cylindricus* Hall and Whitfield, 1872

Schuchert and Cooper, 1932, p. 177.

Cooper *in* Shimer and Shrock, 1944, p. 305, pl. 116, fig. 7.

Silurian, Niagaran.

Hall locality label "187 Utica, Falls of the Ohio. Rev. Herzer Collection. Including other men. also including specimens sent by Dr. James Knapp."

Published locality, Utica, Indiana; Hall Collection.

Pentamerus oblongus var. **maquoketa** Hall and Clarke, 1893

Referred specimen: UC 12446.

Hall and Clarke, 1893, p. 239.

Hall and Clarke, 1895a, pl. 67, fig. 13.

Hall and Clarke, 1895b, p. 368, pl. 11, fig. 14.

Hall and Clarke, 1895c, p. 368, pl. 11, fig. 14.

= ? *Lissocoelina maquoketa* (Hall and Clarke, 1893)
Schuchert and Cooper, 1932, p. 179.

Silurian, Niagaran Dolomite.

Hall locality 27/11, "a collection of Brachiopoda from a number of localities in Iowa, sent by S. Calvin. Lower number for label."

Published locality, near Dubuque, Iowa; Hall Collection.

Remarks: UC 12446 is one of the specimens originally figured by Hall and Clarke, 1893.

Pentamerus oblongus var. **subrectus** Hall and Clarke, 1893

Holotype, not designated, to be selected from UC 12451.

Referred specimens: UC 12451, four specimens.
Hall and Clarke, 1893, pp. 238–239.
Hall and Clarke, 1895a, pl. 68, fig. 6, pl. 69, figs. 2, 3, 8–10, pl. 70, fig. 5.
Hall and Clarke, 1895b, p. 368, pl. 12, figs. 1–6.
Hall and Clarke, 1895c, p. 368, pl. 12, figs. 1–6.

= *Pentameroides subrectus* (Hall and Clarke, 1893)
Schuchert and Cooper, 1931, p. 248.
Schuchert and Cooper, 1932, p. 179.

Silurian, Niagaran.

Jones County, Iowa; Hall Collection.

Pentamerus pergibbosus Hall and Whitfield, 1875

Referred specimen: UC 12445.
Hall and Clarke, 1895a, pl. 67, fig. 10.

Silurian, Niagaran Dolomite.

Near Chicago, Illinois; Hall Collection.

Referred specimen: UC 54005, the deltidium.
Hall and Clarke, 1895a, pl. 67, fig. 16.

Silurian, Niagara Group (Chert).

Wisconsin; Hall Collection.

Remarks: *P. pergibbosus*=*Lissocoelina pergibbosa* (Hall and Whitfield, 1875)
Schuchert and Cooper, 1931, p. 248.

Perditocardinia dubia (Hall, 1856)

See: *Orthis* (*Rhipidomella*) *dubia* Hall, 1856.
Rhipidomella dubia (Hall, 1856).

Petrocrania corallifera (Grubbs, 1939)

See: *Punctopatella corallifera* Grubbs, 1939.

Petrocrania hamiltoniae (Hall, 1860)

See: *Craniella hamiltoniae* (Hall, 1860).

Pholidops cincinnatiensis Hall, 1871

Referred specimen: UC 11950.
Hall, 1871, pl. 3, fig. 10.
Hall, 1872a, pl. 7, fig. 8.
Hall and Clarke, 1892a, pp. 155–159, pl. 4I, fig. 18.

Ordovician, Cincinnatian Series.

Hall locality 131, "Cincinnati, Ohio. From C. B. Dyer." Hall Collection.

Remarks: *P. cincinnatiensis*=*Craniops cincinnatiensis* (Hall, 1871).
Cooper *in* Shimer and Shrock, 1944, p. 293.

A note in Hall, 1872a states that *P. cincinnatiensis* was originally described in the Advance Sheets, New York State Cab. Nat. Hist., Ann. Rept., **20**, 1866. We have this publication but *P. cincinnatiensis* is not described in it.

Pholidops ovata Hall, 1859

Referred specimens: UC 10412, two specimens.
S. Weller, 1903, pp. 226 and 300, pl. 20, figs. 27, 28.

Silurian, Decker Ferry.

S. Weller, 1903 locality $2A^{12}$, William Nearpass Quarry, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Referred specimens: UC 27483, four specimens.
Stewart *in* Branson, 1922, p. 228, pl. 61, figs. 1, 2.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *P. ovata*=*Craniops ovata* (Hall, 1859)
Cooper *in* Shimer and Shrock, 1944, p. 293.

Pholidops parvus Grubbs, 1939

Holotype: original designation UC 46045.
Grubbs, 1939, p. 554.

Referred specimens: UC 46046, four specimens.
Grubbs, 1939, p. 554, pl. 62, fig. 3.

Silurian, Niagaran Dolomite.

Federal Stone Co. Quarry, Chicago, Illinois; Grubbs Collection.

Remarks: *P. parvus=Craniops parvus* (Grubbs, 1939)
Cooper *in* Shimer and Shrock, 1944, p. 293.

Pholidops squamiformis (Hall, 1843)

Referred specimen: UC 11906.
Hall and Clarke, 1892a, p. 156, pl. 41, fig. 21.

Silurian, Niagaran.

Hall locality 209, "Hamilton, Ontario. September 2nd, 1889. Grt=Grant; Tbl=Turnbull; Wlk=Walker"; Hall Collection with "Grt" label.

Remarks: *P. squamiformis=Craniops squamiformis* (Hall, 1843)
Cooper *in* Shimer and Shrock, 1944, p. 293.

Phricodothyris perplexa (McChesney, 1860)

See: *Squamularia perplexa* (McChesney, 1860).

Phricodothyris transversa (Mather, 1915)

See: *Squamularia transversa* Mather, 1915.

Pianodema perveta (Conrad, 1843)

Referred specimen: UC 33415, a brachial valve.
C. L. Fenton, 1928a, pp. 133–135, pl. 3, fig. 19.

Referred specimen: UC 33416, a pedicle valve.
C. L. Fenton, 1928a, pp. 133–135, pl. 3, fig. 16.

Referred specimen: UC 33417, a pedicle valve.
C. L. Fenton, 1928a, pp. 133–135, pl. 3, fig. 17.

Referred specimen: UC 33425, a pedicle valve.
C. L. Fenton, 1928a, pp. 133–135, pl. 3, fig. 18.

Ordovician, Lower Plattin Formation.

"Widow's Nose," Ste. Genevieve County, Missouri; collected by S. Weller.

Remarks: *Pianodema* is a misspelling of *Pionodema* Foerste, 1912.

Pianodema subaequata (Conrad, 1843)

Referred specimen: UC 33418, a pedicle valve.
C. L. Fenton, 1928a, pp. 132–133, pl. 3, fig. 13.

Referred specimen: UC 33419, a pedicle valve.
C. L. Fenton, 1928a, pp. 132–133, pl. 3, fig. 15.

Referred specimen: UC 33420, a pedicle valve.
C. L. Fenton, 1928a, pp. 132–133, pl. 3, fig. 14.

Ordovician, Lower Plattin Formation.

"Widow's Nose," Ste. Genevieve County, Missouri; collected by S. Weller.

Remarks: *Pianodema* is a misspelling of *Pionodema* Foerste, 1912.

Pionodema bellula (Meek, 1873)

See: *Orthis bellula* Meek, 1873.

Pionodema perveta (Conrad, 1843)

See: *Pianodema perveta* (Conrad, 1843)

Pionodema subaequata (Conrad, 1843).

See: *Pianodema subaequata* (Conrad, 1843).

Plaesiomys (Plaesiomys) subquadrata (Hall, 1847)

See: *Orthis* (*Plaesiomys*) *subquadrata* Hall, 1847.

Platidia cretacea S. Weller, 1907

Holotype, not designated, to be selected from UC 18684.

Referred specimens: UC 18684, two specimens.
S. Weller, 1907, p. 363, pl. 27, figs. 18, 19.

Cretaceous, Vincentown Limesand.

S. Weller, 1907 locality 154, Vincentown, New Jersey; New Jersey Collection.

Platymerella crassiplica (Hall and Clarke, 1895)

See: *Conchidium crassiplica* Hall and Clarke, 1895.

Platymerella manniensis Foerste, 1909

Referred specimens: UC 32947, two specimens.

Fisher, 1925, pl. 4, fig. 1.
Silurian, Base of Kankakee.
Two miles south of Channahon, Illinois; collected by D. J. Fisher.

Platyorthis planoconvexa (Hall, 1859)
See: *Dalmanella planoconvexa* (Hall, 1859).

Platyrachella cyrtinaformis helenae C. L. Fenton, 1918
Holotype: UC 25995.
C. L. Fenton, 1918, pp. 216–217, pl. 6, figs. 11–14.
Fenton and Fenton, 1924, p. 164, pl. 29, figs. 8–10.

Referred specimen: UC 25996.
C. L. Fenton, 1918, pp. 216–217, pl. 6, figs. 15–17.
Fenton and Fenton, 1924, p. 164.
Devonian, Hackberry Stage, *Spirifer* Zone.
Clay Pit, Rockford, Iowa; Fenton Collection.

Platyrachella macbridei (Calvin, 1883)
See: *Spirifer macbridii* Calvin, 1883.

Platystrophia acuminata (James, 1878)
Holotype: UC 1562A.
James, 1878, p. 7.
Foerste, 1910, p. 65, pl. 6, fig. 13.

Referred specimens: UC 1562, two specimens.
James, 1878, p. 7.
Foerste, 1910, p. 65.
Ordovician, Cincinnatian Series, Mt. Auburn Beds.
Cincinnati, Ohio; James Collection.

Platystrophia acutilirata inflata Foerste, 1910
Referred specimens: UC 1561, four specimens.
Foerste, 1910, pp. 65–69, pl. 4, figs. 8a–b.
= *Platystrophia acutilirata senex* Cumings, 1908
Bassler, 1915, p. 990.
Ordovician, Whitewater Beds.
Richmond, Indiana; James Collection.

Platystrophia acutilirata senex Cumings, 1908
See: *Platystrophia acutilirata inflata* Foerste, 1910.

Platystrophia amoena McEwan, 1919
See: *Platystrophia biforata* (Schlotheim, 1820).

Platystrophia annieana Foerste, 1910
Holotype, not designated, to be selected from UC 84.

Referred specimens: UC 84, two specimens.
Foerste, 1910, p. 68, pl. 6, figs. 14a–c.
Ordovician, Richmond Group, Waynesville Beds.
Blanchester, Ohio; James Collection.

Platystrophia biforata (Schlotheim, 1820)
Referred specimen: UC 10304.
S. Weller, 1903, pp. 153–154, pl. 9, figs. 25–28.
= *Platystrophia trentonensis perplana* McEwan, 1919
McEwan, 1919, pp. 407–408.
= *Platystrophia amoena* McEwan, 1919 Museum catalogue
Ordovician, Trenton Limestone.
S. Weller, 1903, locality 79A, seven-eighths mile west of Beaver Run, New Jersey; New Jersey Collection.

Platystrophia biforata laticosta (Meek, 1873)
Referred specimen: UC 22740, a pedicle valve.
Hall and Clarke, 1892a, pp. 200–202, pl. 58, fig. 9.
= *Platystrophia laticosta* (Meek, 1873)
Bassler, 1915, p. 993.
McEwan, 1919, p. 432.
= *Platystrophia foerstei* McEwan, 1919 Museum catalogue
Ordovician, Richmond Group
Warren County, Ohio; Hall Collection.
See also: *Orthis* (*Platystrophia*) *laticosta* Meek, 1873.

Platystrophia cypha (James, 1874)
See: *Orthis* (*Platystrophia*) *cypha* James, 1874.

Platystrophia foerstei McEwan, 1919
See: *Platystrophia biforata laticosta* (Meek, 1873).

Platystrophia laticosta (Meek, 1873)
See: *Orthis* (*Platystrophia*) *laticosta* Meek, 1873.
Platystrophia biforata laticosta (Meek, 1873).

Platystrophia lynx var. **cypha** (James, 1874)
See: *Orthis* (*Platystrophia*) *cypha* (James, 1874).

Platystrophia morrowensis (James, 1874)
See: *Orthis* (?) *morrowensis* James, 1874.

Platystrophia profundosulcata (Meek, 1873)
Referred specimens: UC 186, two specimens.
Foerste, 1910, p. 58, pl. 6, figs. 15a–c.
Ordovician, Maysville Group, Fairmount Beds.
Cincinnati, Ohio; James Collection.

Platystrophia trentonensis perplana McEwan, 1919
See: *Platystrophia biforata* (Schlotheim, 1820).

Plectambonites aspera (James, 1874)
See: *Leptaena aspera* James, 1874.

Plectambonites concentriliratus Grubbs, 1939
Holotype: original designation UC 46050.
Grubbs, 1939, pp. 556–557, pl. 62, figs. 12, 15, 16.
Referred specimens: UC 46051, four specimens.
Grubbs, 1939, pp. 556–557, pl. 62, fig. 17.
Silurian, Niagaran Dolomite.
Federal Stone Co. Quarry, Chicago, Illinois.

Plectambonites rugosa (Meek, 1873)
See: *Leptaena aspera* James, 1874.

Plectorthis (Austinella) scovillei (S. A. Miller, 1882)
See: *Austinella scovillei* (S. A. Miller, 1882).

Plectorthis (Austinella) whitfieldi (Winchell, 1881)
See: *Orthis whitfieldi* Winchell, 1881.

Plectorthis equivalvis-latior Foerste, 1910
Holotype: original designation UC 8127.
Foerste, 1910, pl. 6, fig. 3.
Ordovician, Maysville Group, Fairmount Bed.
Cincinnati, Ohio; Gurley Collection.

Plectorthis equivalvis-pervagata Foerste, 1910
Holotype: original designation UC 791 (not UC 8127).
Foerste, 1910, pl. 6, fig. 2.
Ordovician, Maysville Group, Fairmount Bed.
Cincinnati, Ohio; Gurley Collection.

Plectorthis (Eucuclodema) sordida-multiplicata (Foerste, 1910)
See: *Cyclocoelia sordida-multiplicata* Foerste, 1910.

Plectorthis neglecta (James, 1879)
Referred specimen: UC 127, a pedicle valve.
Foerste, 1910, p. 52, pl. 6, fig. 1E.
Ordovician, Maysville Group, Mt. Hope Beds.
Fosters Crossing, Warren County, Ohio; James Collection.
See also: *Orthis neglecta* James, 1879.

Plectorthis plicatella (Hall, 1847)
Referred specimens: UC 124 (not UC 8127), two specimens.
Foerste, 1910, p. 49, pl. 6, figs. 5a–b.
Ordovician, Cincinnatian Series, Maysville Group, Fairmount Bed.
Cincinnati, Ohio; James Collection.

Plectorthis sordida-multiplicata (Foerste, 1910)
See: *Cyclocoelia sordida-multiplicata* Foerste, 1910.

Plethorhyncha barrandei (Hall, 1857)
Referred specimens: UC 27461, two specimens.
Stewart *in* Branson, 1922, pp. 240–241, pl. 63, figs. 15, 16.
Devonian, Little Saline Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Plethorhyncha principalis (Hall, 1856)

Referred specimens: UC 27460, three specimens.
Stewart *in* Branson, 1922, p. 241, pl. 64, figs. 1–3.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Plethorhyncha speciosa (Hall, 1857)

See: *Camarotoechia* (*Plethorhyncha*) *speciosa* (Hall, 1857).

Pleurothyris stewarti (Clarke, 1907)

See: *Rensselaeria* cf. *stewarti* Clarke, 1907.

Plicochonetes geniculatus (White, 1862)

See: *Chonetes geniculatus* White, 1862
Chonetes cf. *geniculatus* White, 1862.

Plicochonetes glenparkensis (S. Weller, 1906)

See: *Chonetes glenparkensis* S. Weller, 1906.

Prionothyris ovalis (Hall, 1857)

See: *Megalanteris ovalis* (Hall, 1857).

Productella concentrica (Hall, 1857)

Referred specimens: UC 6672, two single valves.
S. Weller, 1901, pp. 184–185, pl. 16, figs. 12–14.

Mississippian, Kinderhook Bed no. 6.

Burlington, Iowa; S. Weller Collection.

Referred specimen: UC 6713.
S. Weller, 1914, pp. 98–100, pl. 19, figs. 29–31.

Mississippian, Kinderhook.

Burlington, Iowa; Gurley Collection.

Referred specimens: UC 9821, 17 specimens.
S. Weller, 1914, pp. 98–100, pl. 19, figs. 23–28.

Mississppian, Chouteau Limestone.

Chouteau Springs, Missouri; Sampson Collection.

Referred specimen: UC 14769, a pedicle valve.
S. Weller, 1914, pp. 98–100, pl. 19, figs. 32–34.

Mississippian, Kinderhook Bed no. 6.

Burlington, Iowa; Gurley Collection.

Remarks: *P. concentrica* =*Spinulicosta concentrica* (Hall, 1857) Nalivkin, 1937, pp. 49, 52–53.
P. concentrica =*Avonia concentrica* (Hall, 1857) Sutton, 1938, p. 566.
P. concentrica =*Orbinaria concentrica* (Hall, 1857) Muir-Wood and Cooper, 1960, p. 150.

Productella hirsutiformis (Walcott, 1884)

Referred specimens: UC 16927, three specimens. Snider, 1915, p. 78.

Mississippian, Mayes Formation.

Snider, 1915 locality M4, near Ft. Gibson, Oklahoma; Snider, donor.

Remarks: *P. hirsutiformis* = *Quadratia hirsutiformis* (Walcott, 1884) Muir-Wood and Cooper, 1960, pp. 161–162.

See also: *Productella hirsutiformis* var. *batesvillensis* Girty, 1911.

Productella hirsutiformis var. **batesvillensis** Girty, 1911

Referred specimens: UC 16928, three specimens. Snider, 1915, p. 78.

= *Productella hirsutiformis* (Walcott, 1884) Sutton, 1938, pp. 550–551, pl. 62, fig. 6.

Mississippian, Mayes Formation.

Snider, 1915 locality M4, near Ft. Gibson, Oklahoma; Snider, donor.

Remarks: *P. batesvillensis* = *Quadratia batesvillensis* (Girty, 1911) Muir-Wood and Cooper, 1960, p. 162.

Productella pyxidata (Hall, 1858)

Referred specimens: UC 6696, 23 specimens. S. Weller, 1914, pp. 100–101, pl. 19, figs. 1–21.

Mississippian, Louisiana Limestone.

Louisiana, Missouri; Gurley Collection.

Remarks: *P. pyxidata*=*Orbinaria pyxidata* (Hall, 1858) Muir-Wood and Cooper, 1960, pp. 149–150.

Productella spinulicosta (Hall, 1857)

Referred specimens: UC 23882, two specimens.
Branson and Williams *in* Branson, 1922, p. 141, pl. 35, fig. 11.

Devonian, Grand Tower Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *P. spinulicosta=Spinulicosta spinulicosta* (Hall, 1857) Nalivkin, 1937, pp. 49, 51–52.

Productella sublaevis S. Weller, 1914

Holotype, not designated, to be selected from UC 10558.

Referred specimens: UC 10558, four specimens.
S. Weller, 1914, pp. 102–103, pl. 83, figs. 18–20.

Mississippian, Kinderhook Sandstone.

Kinderhook, Illinois; collected by S. Weller, 1902.

Productina sampsoni (S. Weller, 1909)

See: *Productus sampsoni* S. Weller, 1909.

Productus abruptus Sutton and Wagner, 1931

Referred specimens: UC 30645A, 11 specimens.
Sutton and Wagner, 1931, pp. 24–26.

=*Buxtonia arkansana* (Girty, 1910)
Sutton, 1938, p. 564.

Mississppian, Paint Creek Limestone.

One and four-tenths miles southeast of Claxton, Caldwell County, Kentucky; collected by S. Weller, 1921.

Remarks: *B. arkansana=Flexaria arkansana* (Girty, 1910) Muir-Wood and Cooper, 1960, pp. 258–259.

Productus altonensis Norwood and Pratten, 1855

=*Linoproductus altonensis* (Norwood and Pratten, 1855)
Sutton, 1938, p. 558.

Referred specimen: UC 3142, a pedicle valve.
S. Weller, 1914, pp. 124–125, pl. 10, figs. 19–21.

Mississppian, Salem Limestone.

Washington County, Illinois; Washburn Collection.

Referred specimen: UC 14295, a pedicle valve.

S. Weller, 1914, pp. 124–125, pl. 10, fig 14.

Referred specimen: UC 14296, a pedicle valve.
S. Weller, 1914, pp. 124–125, pl. 10, figs. 22–24.

Mississippian, Salem Limestone.

Spergen Hill, Indiana; Gurley Collection.

Referred specimens: UC 14305, four specimens.
S. Weller, 1914, pp. 124–125, pl. 10, figs. 15–18.

Mississippian, Salem Limestone.

Hall locality 360a, "Spergen Hill. Herzer Collection."

Published locality, Harrison County, Indiana; Hall Collection.

Remarks: *P. altonensis* = *Setigerites altonensis* (Norwood and Pratten, 1855)
Muir-Wood and Cooper, 1960, pp. 197–198.

Productus arcuatus Hall, 1858

Referred specimen: UC 6661, a pedicle valve.
S. Weller, 1901, p. 160, pl. 14, fig. 23.

= *Productus chouteauensis* Branson, 1938
Branson, 1938a, pp. 35–36.

= *Dictyoclostus arcuatus* (Hall, 1858)
Sutton, 1938, p. 562.

Mississippian, Kinderhook Bed no. 5.

Burlington, Iowa; S. Weller Collection.

Referred specimens: UC 6673, two specimens.
S. Weller, 1901, pp. 185–186, pl. 16, fig. 15.

= *Dictyoclostus arcuatus* (Hall, 1858)
Sutton, 1938, p. 562.

Mississippian, Kinderhook Bed no. 6.

Burlington, Iowa; S. Weller Collection.

Remarks: *P. arcuatus*=*Spinulicosta arcuata* (Hall, 1858)
Nalivkin, 1937, pp. 49 and 53.

Referred specimens: UC 9823, five specimens.
S. Weller, 1914, pp. 107–108, pl. 13, figs. 1–5.

= *Spinulocosta arcuata* (Hall, 1858)
Nalivkin, 1937, pp. 49 and 53.

= *Productus chouteauensis* Branson, 1938
Branson, 1938a, pp. 35–36.

= *Dictyoclostus arcuatus* (Hall, 1858)
Sutton, 1938, p. 562.

Mississippian, Chouteau Limestone.

Chouteau Springs, Missouri; Sampson Collection.

Referred specimens: UC 14285, four specimens.
S. Weller, 1914, pp. 107–108, pl. 13, figs. 6–8.

= *Spinulocosta arcuata* (Hall, 1858)
Nalivkin, 1937, pp. 49 and 53.

= *Productus chouteauensis* Branson, 1938
Branson, 1938a, pp. 35–36.

= *Dictyoclostus arcuatus* (Hall, 1858)
Sutton, 1938, p. 562.

Referred specimens: UC 14330, three specimens.
S. Weller, 1914, pp. 107–108, pl. 13, figs. 11, 12.

= *Spinulocosta arcuata* (Hall, 1858)
Nalivkin, 1937, pp. 49 and 53.

= ?*Productus chouteauensis* Branson, 1938
Branson, 1938a, pp. 35–36.

= *Dictyoclostus arcuatus* (Hall, 1858)
Sutton, 1938, p. 562.

Mississippian, Kinderhook Oolite Bed no. 6.

Burlington, Iowa; collected by S. Weller, 1902.

Productus ? auriculatus (Swallow, 1863)

Referred specimen: UC 14278, a pedicle valve.
Hall and Clarke, 1892a, pl. 17A, fig. 24.
Hall and Clarke, 1892b, pl. 22, fig. 6.

Pennsylvanian.

Near Kansas City, Missouri; Hall Collection.

Productus blairi S. A. Miller, 1891

Referred specimens: UC 9692, five specimens.
S. Weller, 1914, pp. 110–111, pl. 14, figs. 20 and 21.

= *Avonia blairi* (S. A. Miller, 1891)
Sutton, 1938, p. 566.

= *Rhytiophora blairi* (S. A. Miller, 1891)
Carter, 1967, p. 297.

Mississippian, Chouteau Limestone.

Pettis County, Missouri; Sampson Collection.

Referred specimens: UC 9824, 11 specimens.
S. Weller, 1914, pp. 110–111, pl. 14, figs. 14–19.
= *Avonia blairi* (S. A. Miller, 1891)
Sutton, 1938, p. 566.
= *Rhytiophora blairi* (S. A. Miller, 1891)
Carter, 1967, p. 297.
Mississppian, Chouteau Limestone.
Chouteau Springs, Missouri; Sampson Collection.

Productus burlingtonensis Hall, 1858
= *Dictyoclostus burlingtonensis* (Hall, 1858)
Cooper *in* Shimer and Shrock, 1944, pp. 349–350, pl. 136, figs. 1–3 (UC 14303).

Referred specimens: UC 345, two specimens.
S. Weller, 1914, pp. 104–106, pl. 9, fig. 9.
Mississippian, Burlington Limestone.
Springfield, Missouri; Weller Collection.

Referred specimens: UC 14287, three specimens.
S. Weller, 1914, pp. 104–106, pl. 9, figs. 6–8.
Mississippian, Burlington Limestone.
Burlington, Iowa; Gurley Collection.

Referred specimen: UC 14288.
S. Weller, 1914, pp. 104–106, pl. 9, fig. 10.
Mississippian, Burlington Limestone.
Quincy, Illinois; Gurley Collection.

Referred specimens: UC 14303, two pedicle valves.
S. Weller, 1914, pp. 104–106, pl. 9, figs. 1–5.
Mississippian, Burlington Limestone.
Burlington, Iowa; Hall Collection.
Remarks: *P. burlingtonensis* = *Marginatia burlingtonensis* (Hall, 1858)
Muir-Wood and Cooper, 1960, pp. 262–263.

Productus calhounensis Moore, 1928
Holotype: original designation UC 32118.

Moore, 1928, pp. 266–267, pl. 10, figs. 4–6.
Branson, 1938a, pp. 31–32.
= *Dictyoclostus calhounensis* (Moore, 1928)
Sutton, 1938, p. 562.
= *Rhytiophora calhounensis* (Moore, 1928)
Muir-Wood and Cooper, 1960, p. 201.
Carter, 1967, pp. 294–297.
Mississippian, Chouteau Limestone.
Two miles south of Grafton, Jersey County, Illinois; collected by Moore.

Referred specimens: UC 8571, two specimens.
Moore, 1928, pp. 266–267, pl. 10, figs. 1–3.
Branson, 1938a, pp. 31–32.
= *Dictyoclostus calhounensis* (Moore, 1928)
Sutton, 1938, p. 562.
= *Rhytiophora calhounensis* (Moore, 1928)
Muir-Wood and Cooper, 1960, p. 562.
Carter, 1967, p. 294.
Mississippian, Chouteau Limestone.
Near Springfield, Missouri; S. Weller Collection.

Productus cestriensis Worthen, 1860
Referred specimen: UC 4958, a pedicle valve.
S. Weller, 1898, p. 256, pl. 19, figs. 7–9.
= *Diaphragmus elegans* (Norwood and Pratten, 1855)
S. Weller, 1914, pp. 136–138.
= *Productus elegans* Norwood and Pratten, 1855
Sutton, 1938, p. 559.
Mississippian, Batesville Sandstone.
S. Weller, 1898 locality 2A, Batesville, Arkansas; collected by S. Weller, 1896.
Remarks: *P. cestriensis* = *Diaphragmus elegans* (Norwood and Pratten, 1855)
Muir-Wood and Cooper, 1960, pp. 241–243.

Productus cherokeensis Drake, 1898
Referred specimen: UC 16198.
Snider, 1915, pp. 80–81.

= *Dictyoclostus cherokeensis* (Drake, 1898)
Sutton, 1938, p. 563.

Mississippian, Fayetteville Limestone.

Snider, 1915 locality F16, Pryor Quadrangle, Oklahoma; Snider, donor.

Remarks: *P. cherokeensis*=*Inflatia cherokeensis* (Drake, 1898) Muir-Wood and Cooper, 1960, pp. 226–227.

Productus chouteauensis Branson, 1938

See: *Productus arcuatus* Hall, 1858; UC 6661; UC 9823; UC 14285.

Productus crawfordsvillensis S. Weller, 1914

Holotype, not designated, to be selected from UC 14381.

Referred specimens: UC 14381, five specimens.
S. Weller, 1914, pp. 116–117, pl. 12, figs. 4–7.

= *Dictyoclostus crawfordsvillensis* (S. Weller, 1914)
Sutton, 1938, pp. 562–563, pl. 64, figs. 5–8.

Mississippian, Keokuk Limestone.

Hall locality 359, "Crawfordsville, Indiana. Herzer Collection"; Hall Collection.

Productus curtirostris Winchell, 1865

Referred specimens: UC 10576, three specimens.
S. Weller, 1914, pp. 130–131, pl. 14, figs. 12, 13.

= *Dictyoclostus curtirostris* (Winchell, 1865)
Sutton, 1938, p. 563.

Mississippian, English River Gritstone.

Maple Hill, Washington County, Iowa; collected by S. Weller, 1902.

Productus elegans Norwood and Pratten, 1855

See: *Productus cestriensis* Worthen, 1860.

Productus fayettevillensis Mather, 1915

Referred specimen: UC 16240, a pedicle valve.
Mather, 1915, pp. 163–165, pl. 10, fig. 6.

Pennsylvanian, Kessler Limestone.

Mather, 1915 station 209, East Mountain, Fayetteville, Arkansas; Mather, donor.

Productusis fernglenensis S. Weller, 1909

Holotype, not designated, to be selected from UC 4697.

Referred specimens: UC 4697 (not UC 4669), four specimens.
S. Weller, 1909, pp. 299–300, pl. 12, figs. 14–17.
S. Weller, 1914, pp. 106–107, pl. 9, figs. 11–16.

= *Dictyoclostus fernglenensis* (S. Weller, 1909)
Sutton, 1938, p. 563.
Cooper *in* Shimer and Shrock, 1944, pp. 349–350, pl. 136, figs. 4–6.

= *Marginatia fernglenensis* (S. Weller, 1909)
Muir-Wood and Cooper, 1960, pp. 262–263.

Mississippian, Fern Glen Formation.

S. Weller, 1909 locality 5, near Kimmswick, Missouri; collected by S. Weller, 1896.

Referred specimen: UC 8556, a pedicle valve.
S. Weller, 1914, pp. 106–107, pl. 9, fig. 17.

= *Dictyoclostus fernglenensis* (S. Weller, 1909)
Sutton, 1938, p. 563.

Mississippian, Pierson Limestone.

Near Springfield, Missouri; Weller Collection.

Remarks: *P. fernglenensis* = *Marginatia fernglenensis* (S. Weller, 1909)
Muir-Wood and Cooper, 1960, pp. 262–263.

Productus inflatus McChesney, 1860

Referred specimens: UC 14304, five specimens.
S. Weller, 1914, pp. 111–112, pl. 10, figs. 4–6.

= *Dictyoclostus inflatus* (McChesney, 1860)
Sutton, 1938, p. 563.

Mississippian, Chester Group.

Hall locality 366, "from Meade County, Kentucky. 1879 from Henry Nettelroth"; Hall Collection.

Referred specimen: UC 14762, a pedicle valve.
S. Weller, 1914, pp. 111–112, pl. 10, figs. 1–3.

= *Dictyoclostus inflatus* (McChesney, 1860)
Sutton, 1938, p. 563.

Mississippian, Chester Group, base of Okaw Formation.

City quarry in Red Bud, Illinois; collected by S. Weller, 1907.
Remarks: *P. inflatus*=*Inflatia inflatia* (McChesney, 1860) Muir-Wood and Cooper, 1960, pp. 226–227.

Productus insinuatus var. **missouriensis** Sayre, 1930
Holotype, not designated, to be selected from UC 19689.

Referred specimens: UC 19689, three pedicle valves.
Sayre, 1930, pp. 94–95, pl. 5, figs. 1–2b, pl. 6, fig. 1.
Pennsylvanian, Drum Limestone.
Kansas City, Missouri; Gurley Collection.

Productus laevicostus White, 1860
Referred specimen: UC 5924, a pedicle valve.
S. Weller, 1900a, p. 71, pl. 1, figs. 1, 2.
=*Productus ovatus* Hall, 1858
S. Weller, 1914, pp. 132–135, pl. 16, fig. 13.
=*Linoproductus ovatus* (Hall, 1858)
Sutton, 1938, p. 558.
Mississippian, Chonopectus Sandstone.
Burlington, Iowa; S. Weller Collection.
Remarks: *P. laevicostus*=*Ovatia laevicostus* (White, 1860) Muir-Wood and Cooper, 1960, pp. 311–314.

Productus magnus Meek and Worthen, 1861
=*Marginirugus magnus* (Meek and Worthen, 1861)
Sutton, 1938, p. 561, pl. 63, figs. 10–12 (UC 14765).

Referred specimen: UC 12281, a pedicle valve with brachial valve of *Orbiculoidea* sp. attached to it.
Meek and Worthen, 1861, pp. 142–143.
Mississippian, Keokuk Group, *Productus magnus beds.*
Ste. Genevieve County, Missouri; Gurley Collection.
Remarks: UC 12281 is listed in the museum catalogue as a cotype and may be one of the specimens originally used by Meek and Worthen, 1861.

Referred specimen: UC 14308, a pedicle valve.
S. Weller, 1914, pp. 117–119, pl. 15, figs. 6–8.
Mississippian, Keokuk Limestone.

Fenton, St. Louis County, Missouri; Hall Collection.

Referred specimens: UC 14321, four specimens.
S. Weller, 1914, pp. 117–119, pl. 15, figs. 1–4.

Referred specimens: UC 14765, a pedicle valve.
S. Weller, 1914, pp. 117–119, pl. 15, fig. 5.

Mississippian, Keokuk Limestone.

Monroe County, Illinois; Gurley Collection.

Productus marginicinctus Prout, 1857

Referred specimens: UC 10846, 14 specimens.
S. Weller, 1914, pp. 127–128, pl. 13, figs. 18–21.

=*Marginicinctus marginicinctus* (Prout, 1857)
Sutton, 1938, p. 562.
Cooper *in* Shimer and Shrock, 1944, p. 349, pl. 135, figs. 49, 50.

Mississippian, St. Louis Limestone.

Kavanaugh's Quarry, North St. Louis, Missouri; Van Horne Collection.

Referred specimen: UC 14290, a pedicle valve.
S. Weller, 1914, pp. 127–128, pl. 13, figs. 22, 23.

=*Marginicinctus marginicinctus* (Prout, 1857)
Sutton, 1938, p. 562.

Mississippian, St. Louis Limestone.

St. Louis, Missouri; Gurley Collection.

Productus mesialis Hall, 1858

Referred specimens: UC 14329, five specimens.
S. Weller, 1914, pp. 112–113, pl. 10, figs. 7–13.

=*Dictyoclostus mesialis* (Hall, 1858)
Sutton, 1938, p. 563.

Mississippian, Residual Chert (from the Keokuk?).

Pierce City, Missouri; Sampson Collection.

Productus mesicostalis S. Weller, 1914

Holotype, not designated, to be selected from UC 10585.

Referred specimens: UC 10585, seven specimens.
S. Weller, 1914, p. 114, pl. 11, figs. 12–16.

=*Dictyoclostus mesicostalis* (S. Weller, 1914)

Sutton, 1938, p. 563.

Mississippian, English River Gritstone.

Maple Mill, Washington County, Indiana; collected by S. Weller, 1902.

Productus morrowensis Mather, 1915

= *Antiquatonia morrowensis* (Mather, 1915)
Muir-Wood and Cooper, 1960, pp. 270–273.

Holotype: original designation UC 16125, a pedicle valve.
Mather, 1915, pp. 152–154, pl. 10, figs. 1–1c.

Referred specimen: UC 16126, a brachial valve.
Mather, 1915, pp. 152–154, pl. 10, fig. 2.

Pennsylvanian, Hale Formation.

Mather, 1915 station 136, near Fayetteville, Arkansas; Mather, donor.

Referred specimen: UC 16127, a brachial valve.
Mather, 1915, pp. 152–154, pl. 10, figs. 3, 3a.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 210, Sawney Hollow, Oklahoma; Mather, donor.

Referred specimen: UC 16412, a pedicle valve.
Mather, 1915, pp. 152–154, pl. 10, figs. 4, 4a.

Pennsylvanian, Morrow Formation.

Mather, 1915 station 298, near Chouteau, Oklahoma; Mather, donor.

Productus nanus Meek and Worthen, 1861

Holotype: UC 9914, a pedicle valve.
Meek and Worthen, 1861, p. 450.
Meek and Worthen, 1866, pp. 320–321, pl. 26, figs. 4a–d.

Lower Coal Measures.

Alpine, Jefferson County, Iowa; Gurley Collection.

Referred specimen: UC 16081, a pedicle valve.
Mather, 1915, pp. 156–157, pl. 8, figs. 12–12b.

Pennsylvanian, Morrow Formation.

Mather, 1915 station 304, Gore, Oklahoma; Mather, donor.

Productus newtonensis Moore, 1928

Holotype: original designation UC 32120.
Moore, 1928, pp. 267–268, pl. 10, figs. 12, 13.

=*Buxtonia newtonensis* (Moore, 1928)
Sutton, 1938, p. 564.

=*Setigerites setiger* (Hall, 1858)
Muir-Wood and Cooper, 1960, pp. 197–198.

Referred specimen: UC 32120A.
Moore, 1928, pp. 267–268.

=*Buxtonia newtonensis* (Moore, 1928)
Sutton, 1938, p. 564.

=*Setigerites setiger* (Hall, 1858)
Muir-Wood and Cooper, 1960, pp. 197–198.

Mississippian, Reeds Spring Limestone.

Ten feet below base of Grand Falls Chert, one-fourth mile west of Grand Falls, on Shoal Creek, six miles south of Joplin, Missouri; Moore Collection.

Productus ovatus Hall, 1858

=*Linoproductus ovatus* (Hall, 1858)
Sutton, 1938, p. 558.

Referred specimens: UC 296, four specimens.
S. Weller, 1914, pp. 132–135, pl. 16, figs. 14, 15.

Mississippian, Lower Burlington Limestone.

Nine miles northeast of Springfield, Missouri; Weller Collection.

Referred specimens: UC 326, four specimens.
S. Weller, 1914, pp. 132–135, pl. 16, figs. 8, 9.

Mississippian, Keokuk Limestone.

Near Springfield, Missouri; Weller Collection.

Referred specimen: UC 6714, a pedicle valve.
S. Weller, 1914, pp. 132–135, pl. 16, fig. 12.

Mississippian, Kinderhook Bed no. 7.

Burlington, Iowa; Gurley Collection.

Referred specimens: UC 10130, eight specimens.
S. Weller, 1914, pp. 132–135, pl. 16, figs. 10, 11.

Mississippian, St. Louis Limestone.

Kavanaugh's Quarry, St. Louis, Missouri; Van Horne Collection.

Referred specimens: UC 14314, three specimens.
S. Weller, 1914, pp. 132–135, pl. 16, figs. 4, 5.
Mississippian, Chester Group.
Meade County, Kentucky; Hall Collection.
Remarks: *P. ovatus*=*Ovatia ovata* (Hall, 1858)
Muir-Wood and Cooper, 1960, pp. 311–314.
See also: *Productus laevicostus* White, 1860; UC 5924.

Productus ovatus var. **latior** Snider, 1915
Holotype, not designated, to be selected from UC 16235.
Referred specimens: UC 16235, four specimens.
Snider, 1915, pp. 79–80.
=*Linoproductus ovatus* (Hall, 1858)
Sutton, 1938, p. 558.
=*Ovatia ovata* var. *latior* (Snider, 1915)
Muir-Wood and Cooper, 1960, pp. 311–314.
Mississippian, Mayes Formation.
Snider, 1915 locality M6, near Yonkers, Pryor Quadrangle, Oklahoma; Snider, donor.

Productus ovatus var. **minor** Snider, 1915
Holotype, not designated, to be selected from UC 16234.
Referred specimens: UC 16234, four specimens.
Snider, 1915, p. 79, pl. 3, figs. 19–21.
=*Linoproductus ovatus* (Hall, 1858)
Sutton, 1938, p. 558.
=*Ovatia ovata* var. *minor* (Snider, 1915)
Muir-Wood and Cooper, 1960, pp. 311–314.
Mississippian, Fayetteville Limestone.
Snider, 1915 locality F21, near Todd, Vinita Quadrangle, Oklahoma; Snider, donor.

Productus parvus Meek and Worthen, 1861
Referred specimen: UC 9915.
Meek and Worthen, 1861, pp. 450–451.
Meek and Worthen, 1866, pp. 297–298, pl. 23, figs. 4a–e.
S. Weller, 1914, pp. 121–122, pl. 16, figs. 16–19.
=*Dictyoclostus parvus* (Meek and Worthen, 1861)

Sutton, 1938, p. 563.

= *Protoniella parva* (Meek and Worthen, 1861)
Muir-Wood and Cooper, 1960, pp. 265–266.

Mississippian, Kaskaskia Group.

Chester, Illinois; Gurley Collection.

Remarks: UC 9915 agrees with the measurements given by Meek and Worthen, 1861, p. 451, and may be the holotype.

Referred specimens: UC 10923, seven specimens.
S. Weller, 1914, pp. 121–122, pl. 16, figs. 20–22.

= *Dictyoclostus parvus* (Meek and Worthen, 1861)
Sutton, 1938, p. 563.

Mississippian, Pella Beds.

Pella, Iowa; Van Horne Collection.

Remarks: *P. parvus* = *Protoniella parva* (Meek and Worthen, 1861)
Muir-Wood and Cooper, 1960, pp. 265–266.

Productus punctatus Martin, 1809

Referred specimen: UC 14090, a brachial valve.
Hall and Clarke, 1892a, pl. 17A, fig. 21.

Pennsylvanian.

Near Kansas City, Missouri; Hall Collection.

Productus sampsoni S. Weller, 1909

= *Productina sampsoni* (S. Weller, 1909)
Sutton, 1938, pp. 551–552, pl. 63, figs. 1–4 (holotype).

Holotype: original designation UC 9695A, a pedicle valve.
S. Weller, 1909, pp. 300–301, pl. 12, figs. 18–20.
S. Weller, 1914, pp. 129–130, pl. 13, figs. 30–33.

Referred specimens: UC 9695, three specimens.
S. Weller, 1909, pp. 300–301.
S. Weller, 1914, pp. 129–130.

Mississippian, Chouteau Limestone.

Pettis County, Missouri; Sampson Collection.

Referred specimens: UC 4698, seven specimens.
S. Weller, 1909, pp. 300–301, pl. 12, figs. 21, 22.
S. Weller, 1914, pp. 129–130, pl. 13, figs. 34, 35.

Mississippian, Fern Glen Formation.

S. Weller, 1909 locality 9, near Kimmswick, Missouri; S. Weller Collection.

Productus scitulus Meek and Worthen, 1860

Referred specimen: UC 13128, a pedicle valve.

S. Weller, 1914, pp. 120–121, pl. 13, figs. 24–26.

= *Dictyoclostus scitulus* (Meek and Worthen, 1860)
Sutton, 1938, p. 564.

Mississippian, St. Louis Limestone.

Kavanaugh's Quarry, St. Louis, Missouri; Van Horne Collection.

Referred specimens: UC 14764, three specimens.

S. Weller, 1914, pp. 120–121, pl. 13, figs. 27–29.

= *Dictyoclostus scitulus* (Meek and Worthen, 1860)
Sutton, 1938, p. 564.

Mississippian, St. Louis Limestone.

Fountain Creek, Monroe County, Illinois; Gurley Collection.

Remarks: *P. scitulus* = *Setigerites scitulus* (Meek and Worthen, 1860)

Muir-Wood and Cooper, 1960, pp. 197–198.

Productus sedaliensis S. Weller, 1914

Holotype, not designated, to be selected from UC 9691.

Referred specimens: UC 9691 (not UC 9690), ten specimens.

S. Weller, 1914, pp. 108–110, pl. 14, figs. 1–7.

Branson, 1938a, p. 34, pl. 2, fig. 41.

= *Dictyoclostus sedaliensis* (S. Weller, 1914)
Sutton, 1938, p. 563.

Mississippian, Chouteau Limestone.

Pettis County, Missouri; Sampson Collection.

Productus semireticulatus Martin, 1809

Referred specimen: UC 11933.

Hall and Clarke, 1892a, pl. 17A, fig. 16.

Pennsylvanian.

Perry County, Ohio; Hall label Hr, "Herzer Collection"; Hall Collection.

Remarks: *P. semireticulatus* = *Dictyoclostus semireticulatus* (Martin, 1809)

Muir-Wood and Cooper, 1960, pp. 269–270.

Productus setigerus Hall, 1858
Referred specimen: UC 14763.
S. Weller, 1914, pp. 122–124, pl. 12, figs. 2, 3.
=*Buxtonia setigera* (Hall, 1858)
Sutton, 1938, p. 564.
Mississippian, Keokuk Limestone.
Near Hamilton, Illinois; Gurley Collection.
Remarks: *P. setigerus*=*Setigerites setigerus* (Hall, 1858)
Cooper *in* Shimer and Shrock, 1944, p. 350.
P. setigerus=*Setigerites setiger* (Hall, 1858)
Muir-Wood and Cooper, 1960, p. 197.

Productus symmetricus McChesney, 1860
Referred specimens: UC 14103, two specimens.
Hall and Clarke, 1892a, pl. 17A, figs. 19, 20.
Hall and Clarke, 1892b, pl. 22, fig. 4.
Pennsylvanian.
Near Kansas City, Missouri; Hall Collection.
Remarks: *P. symmetricus*=*Pulchratia symmetrica* (McChesney, 1860)
Muir-Wood and Cooper, 1960, pp. 249–250.

Productus tenuicostus Hall, 1858
Referred specimen: UC 279.
S. Weller, 1914, pp. 119–120, pl. 10, figs. 25–27.
Mississippian, Residuary Chert.
Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 14283, a pedicle valve.
S. Weller, 1914, pp. 119–120, pl. 11, figs. 1–3.
Mississippian, St. Louis Limestone.
Alton, Illinois; Gurley Collection.

Referred specimens: UC 14284, six specimens.
S. Weller, 1914, pp. 119–120, pl. 21, figs. 4, 5.
Mississippian, St. Louis Limestone.
Milan, Illinois; Hall Collection.

Remarks: *P. tenuicostus*=*Linoproductus tenuicostus* (Hall, 1858) Sutton, 1938, p. 558.

Productus viminalis White, 1862

Referred specimens: UC 7925, two specimens.
S. Weller, 1914, pp. 114–116, pl. 11, fig. 11.
=*Buxtonia viminalis* (White, 1862)
Sutton, 1938, p. 564.
Mississippian, Burlington Limestone.
Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 14291, a pedicle valve.
S. Weller, 1914, pp. 114–116, pl. 11, figs. 9, 10.
=*Buxtonia viminalis* (White, 1862)
Sutton, 1938, p. 564.
Mississippian, Burlington Limestone.
Quincy, Illinois; Hall Collection.

Productus wortheni Hall, 1858

Referred specimens: UC 281, three specimens.
S. Weller, 1914, pp. 126–127, pl. 13, figs. 13–16.
=*Marginicinctus wortheni* (Hall, 1858)
Sutton, 1938, p. 562.
Mississippian, Residuary Chert.
Springfield, Missouri; S. Weller Collection.

Referred specimens: UC 294, six specimens.
S. Weller, 1914, pp. 126–127, pl. 13, fig. 17.
=*Marginicinctus wortheni* (Hall, 1858)
Sutton, 1938, p. 562.
Mississippian, Keokuk Limestone.
Near Springfield, Missouri; S. Weller Collection.
Remarks: *P. wortheni*=*Labriproductus wortheni* (Hall, 1858) Muir-Wood and Cooper, 1960, pp. 261–262.

Productus sp.

Referred specimen: UC 7864.
S. Weller, 1914, pl. 18, figs. 11, 12.
Mississippian, St. Louis Limestone.
Jersey County, Illinois; Gurley Collection.

Referred specimen: UC 16236, a pedicle valve.
Mather, 1915, p. 165, pl. 8, figs. 16–16b.

Pennsylvanian, Kessler Limestone.

Mather, 1915 station 209, East Mountain, Fayetteville, Arkansas; Mather, donor.

Protoniella parva (Meek and Worthen, 1861)

See: *Productus parvus* Meek and Worthen, 1861.

Protorhyncha aequiradiata (Hall, 1852)

See: *Camarotoechia aequiradiata* (Hall, 1852).

Protorhyncha? plattensis C. L. Fenton, 1928

Holotype: original designation UC 25638.
C. L. Fenton, 1928a, pp. 135–136, pl. 3, figs. 21–24.

Ordovician, Plattin Formation.

Fenton locality, F 106#3, Yeager Hill, near River Aux Vases, Ste. Genevieve County, Missouri; Fenton Collection.

Referred specimens: UC 25637, four specimens.
C. L. Fenton, 1928a, pp. 135–136, pl. 4, figs. 1–6.

Referred specimens: UC 25623, five specimens.
C. L. Fenton, 1928a, pp. 135–136, pl. 4, figs. 1–6.

Ordovician, Plattin Formation.

Fenton locality, F 106#3, Yeager Hill, Ste. Genevieve County, Missouri; Fenton Collection.

Protorthis billingsi (Hartt, 1868)

Referred specimens: UC 11937, three single valves.
Hall and Clarke, 1892a, pp. 231–233, pl. 7A, figs. 14–20.
Hall and Clarke, 1892b, p. 274, pl. 8, figs. 3–7.
Schuchert and Cooper, 1932, pp. 46–47, pl. 1, fig. 14.

=*Billingsella billingsi* (Hartt, 1868)
Schuchert, 1897, p. 158.

Cambrian, St. John Group.

Hall locality 6b, "Portland, N.B. Collection of Geo. F. Matthew of St. John."

Published locality, Ratcliff's mill, near St. John, New Brunswick, Canada; Hall Collection.

Protorthis latourensis (Matthew, 1886)
See: *Kutorgina latourensis* Matthew, 1886.

Pseudosyrinx gigas S. Weller, 1914
Holotype: original designation UC 12805.
S. Weller, 1914, pp. 410–411, pl. 66, figs. 1–5.
Mississippian, Keokuk(?).
Kentucky(?); Hall Collection.

Pseudosyrinx keokuk S. Weller, 1914
Holotype: original designation UC 13026.
S. Weller, 1914, pp. 408–410, pl. 67, figs. 1–5.
Mississippian, Keokuk [catalogue], Residual Chert [published].
Unknown; Hall Collection.

Referred specimen: UC 13020.
S. Weller, 1914, pp. 408–410, pl. 67, figs. 6–9.
Mississippian, Keokuk Limestone.
Warsaw, Illinois; Hall Collection.

Referred specimen: UC 5634.
S. Weller, 1914, pp. 408–410, pl. 66, figs. 6–10.
Mississippian, Residual Chert.
Springfield, Missouri; Weller Collection.

Referred specimens: UC 13569, two single valves.
S. Weller, 1914, pp. 408–410.
Mississippian, Keokuk Limestone.
Near Springfield, Missouri; S. Weller Collection.

Pseudosyrinx missouriensis S. Weller, 1914
Holotype: original designation UC 13559A.
S. Weller, 1914, pp. 406–408, pl. 65, figs. 5–9.

Referred specimens: UC 13559, two specimens.
S. Weller, 1914, pp. 406–408, pl. 66, fig. 13.
Mississippian, Burlington Limestone.
Osceola, Missouri; Sampson Collection.

Referred specimens: UC 13967, two specimens.
S. Weller, 1914, pp. 406–408, pl. 66, figs. 11–13.

Mississippian, Burlington White Chert.
Louisiana, Missouri; Gurley Collection.

Pseudosyrinx sampsoni S. Weller, 1909
Referred specimens: UC 12816, two specimens.
S. Weller, 1914, pp. 405–406, pl. 67, fig. 11.
Mississippian, Keokuk Limestone.
Warsaw, Illinois; Hall Collection.

Pseudosyrinx sp.
Referred specimen: UC 12807, a pedicle valve.
S. Weller, 1914, pl. 67, fig. 10.
Mississippian, Keokuk Group, Crawfordsville Beds.
Hall locality 751, "Crawfordsville, Indiana. Mohr Collection"; Hall Collection.

Pugnax altus (Calvin, 1875)
Referred specimen: UC 12417.
Hall and Clarke, 1893, p. 203.
Hall and Clarke, 1894, pl. 44, figs. 24, 25.
Hall and Clarke, 1895a, pl. 60, figs. 4, 5.
= *Pugnax pugnus alta* (Calvin, 1875)
Schuchert, 1897, p. 335.
= *Pugnoides calvini* Fenton and Fenton, 1924
Fenton and Fenton, 1924, pp. 125–128.
Devonian, Hackberry Stage.
Hackberry Grove, Iowa; Hall Collection.

Referred specimen: UC 12937.
Hall and Clarke, 1893, p. 203.
Hall and Clarke, 1895a, pl. 60, figs. 1–30.
= *Pugnax pugnus alta* (Calvin, 1875)
Schuchert, 1897, p. 335.
= *Pugnoides solon* Thomas and Stainbrook, 1921
Fenton and Fenton, 1924, p. 129.
Devonian.
Solon, Iowa; Hall Collection.

Pugnax greenianus (Ulrich, 1886)
Referred specimen: UC 12422.

Hall and Clarke, 1893, p. 194.
Hall and Clarke, 1895a, pl. 60, figs. 36–38.
=*Liorhynchus greenianum* (Ulrich, 1886)
S. Weller, 1914, p. 185.
Mississippian, Knobstone.
New Albany, Indiana; Hall Collection.
Remarks: *Liorhynchus* Oehlert, 1887=*Leiorhynchus* Hall, 1860 Schmidt and McLaren *in* Moore, 1965, p. 581.

Pugnax missouriensis (Shumard, 1855)
Referred specimen: UC 12421.
Hall and Clarke, 1893, p. 204.
Hall and Clarke, 1895a, pl. 60, figs. 33, 34.
= *Paryphorhynchus striatocostatum* (Meek and Worthen, 1868)
S. Weller, 1914, pp. 189–190.
Mississippian, Kinderhook Limestone [catalogue]; Chouteau Limestone [published].
Burlington, Iowa [catalogue]; Pike County, Missouri [published]; Hall Collection.
Remarks: *Paraphorhynchus* S. Weller, 1905=*Paryphorhynchus* S. Weller, 1914 nom. van.
McLaren *in* Moore, 1965, p. 586.
See also: *Paraphorhynchus striatocostatum* (Meek and Worthen, 1868).

Pugnax mutata (Hall, 1858)
See: *Rhynchonella mutata*(?) Hall, 1858.

Pugnax mutatus (Hall, 1856)
Referred specimen: UC 12419.
Hall and Clarke, 1893, p. 203.
Hall and Clarke, 1895a, pl. 60, figs. 18, 19, 22.
=*Camarotoechia mutata* (Hall, 1856)
S. Weller, 1914, p. 181.
Mississippian, Salem Limestone.
Spergen Hill, Indiana; Hall Collection.

Pugnax pugnus alta (Calvin, 1875)
See: *Pugnax altus* (Calvin, 1875).

Pugnax quadrirostris Beede, 1906

Referred specimen: UC 2996.
S. Weller, 1914, pp. 204–205, pl. 25, figs. 34–36.

Mississippian, Salem Limestone.

Bloomington, Indiana; S. Weller Collection.

Pugnax striatocostata (Meek and Worthen, 1868)

Referred specimen: UC 6658.
S. Weller, 1901, pp. 154–156, pl. 13, figs. 14–16.

= *Paraphorhynchus striatocostatum* (Meek and Worthen, 1868)
S. Weller, 1905a, pp. 262–263, pl. 1, figs. 9–11.

= *Paryphorhynchus striatocostatum* (Meek and Worthen, 1868)
S. Weller, 1914, pp. 189–190, pl. 26, figs. 20–22.
Cooper *in* Shimer and Shrock, 1944, p. 311, pl. 119, figs. 1–3.

Mississippian, Kinderhook Bed no. 4.

Burlington, Iowa; Weller Collection.

Remarks: *Paraphorhynchus* S. Weller, 1905= *Paryphorhynchus* S. Weller, 1914 nom. van.
McLaren *in* Moore, 1965, p. 586.

Pugnax swalloviana (Shumard, 1859)

Referred specimens: UC 12420, three specimens.
Hall and Clarke, 1893, p. 204.
Hall and Clarke, 1895a, pl. 60, figs. 27–32.

Pennsylvanian.

Manhattan, Kansas; Hall Collection.

Pugnax uta (Marcou, 1858)

Referred specimen: UC 12423.
Hall and Clarke, 1893, p. 204.
Hall and Clarke, 1894, pl. 44, figs. 17, 18.
Hall and Clarke, 1895a, pl. 60, figs. 39–41.

Pennsylvanian.

Manhattan, Kansas [published]; near Winterset, Iowa [catalogue]; Hall Collection.

Pugnax wortheni (Hall, 1856)

Referred specimen: UC 13928, three specimens.

S. Weller, 1914, pp. 203–204, pl. 25, figs. 37–39.

Mississippian, Salem Limestone.

Hull's Hollow, above Alton, Illinois; Van Horne Collection.

Pugnax sp.?

Referred specimens: UC 12425, two specimens.
Hall and Clarke, 1895a, pl. 60, figs. 46–48.

Pennsylvanian.

Hall locality 504, "Vicinity of Graham, Texas. Sent by A. B. Grant of Graham, Texas."; Hall Collection.

Pugnoides calvini Fenton and Fenton, 1924

See: *Pugnax altus* (Calvin, 1875) UC 12417.

Pugnoides ottumwa (White, 1862)

Referred specimens: UC 13930, 13 specimens.
S. Weller, 1914, pp. 193–195, pl. 25, figs. 7–17.

Mississippian, Ste. Genevieve Limestone.

Fountain Creek, near Waterloo, Illinois; Gurley Collection.

Referred specimens: UC 25392, two specimens
S. Weller, 1920 pp. 351–352, pl. 8, figs. 1, 2.

Mississippian, Ste. Genevieve Limestone.

Near mouth of River Aux Vases, Missouri; collected by S. Weller, 1914.

Referred specimen: UC 25393.
S. Weller, 1920, pp. 351–352, pl. 8, figs. 3, 4.

Mississippian, Fredonia Limestone.

S. Weller, 1920 locality W15-14, Rosiclare, Illinois; collected by S. Weller, 1915.

Pugnoides solon Thomas and Stainbrook, 1921

See: *Pugnax altus* (Calvin, 1875) UC 12937.

Pugnoides triangularis Mather, 1915

Holotype, not designated, to be selected from UC 16136.

Referred specimens: UC 16136, three specimens.
Mather, 1915, pp. 175–176, pl. 12, figs. 12–12c.

Pennsylvanian, Hale Formation.

Mather, 1915 station 137, East Mountain, Fayetteville, Arkansas; Mather, donor.

Pulchratia symmetrica (McChesney, 1860)
See: *Productus symmetricus* McChesney, 1860.

Punctopatella corallifera Grubbs, 1939
=*Petrocrania corallifera* (Grubbs, 1939)
Rowell *in* Moore, 1965, pp. 290–291.
Holotype: original designation UC 46060.
Grubbs, 1939, p. 559, pl. 62, figs. 31, 33.
Referred specimens: UC 46061, four specimens.
Grubbs, 1939, p. 559, pl. 62, fig. 34.
Silurian, Niagaran Dolomite.
Federal Stone Co. Quarry, Chicago, Illinois.

Pustula alternata (Norwood and Pratten, 1855)
Referred specimen: UC 16934, a pedicle valve.
Snider, 1915, p. 82.
=*Echinoconchus alternatus* (Norwood and Pratten, 1855)
Easton, 1942, pl. 5, fig. 9.
Mississippian, Pitkin Formation.
Snider locality P7, Melvin, Oklahoma; Snider, donor.

Pustula arctifossa Moore, 1928
Holotype: original designation UC 32114A.
Moore, 1928, pp. 269–270, pl. 10, figs. 7–9.
Referred specimen: UC 32114, a brachial valve.
Moore, 1928, pp. 269–270, pl. 10, fig. 10.
Mississippian, Burlington Limestone (chert).
Osceola, St. Clair County, Missouri; collected by R. C. Moore.
Referred specimen: UC 8558 (not UC 9558), a brachial valve.
Moore, 1928, pp. 138–140, pl. 10, fig. 11.
Mississippian, Pierson Limestone.
Near Springfield, Greene County, Missouri; Weller Collection.

Pustula biseriata (Norwood and Pratten, 1855)
See: *Echinoconchus biseriatus* (Norwood and Pratten, 1855).

Pustula echinata Moore, 1928

Holotype: original designation UC 35942 (not UC 35992), a pedicle valve.

Moore, 1928, pp. 268–269, pl. 11, figs. 22–24.

Branson, 1938a, p. 41, pl. 3, figs. 9, 10.

= *Krotovia echinata* (Moore, 1928)

Sutton, 1938, p. 557.

Mississippian, Chouteau Limestone Bed no. 1.

Small gully 200 yards above Snake Den on Little Fabius River, two miles southwest of Newark, Knox County, Missouri; Moore Collection.

Referred specimen: UC 9825.

Moore, 1928, pp. 268–269, pl. 11, figs. 25–27.

Branson, 1938a, p. 41.

= *Krotovia echinata* (Moore, 1928)

Sutton, 1938, p. 557, pl. 66, figs. 12, 13.

Mississippian, Chouteau Limestone.

Chouteau Springs, Missouri; Sampson Collection.

Pustula genevievensis (S. Weller, 1914)

See: *Echinoconchus genevievensis* S. Weller, 1914.

Pustula globosa Mather, 1915

Holotype: original designation UC 16130, a pedicle valve.

Mather, 1915, pp. 167–168, pl. 10, figs. 7–7a.

Referred specimen: UC 16130A, a brachial valve.

Mather, 1915, pp. 167–168, pl. 10, fig. 8.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 210, Sawney Hollow, Oklahoma; Mather, donor.

Referred specimen: UC 16237, a pedicle valve.

Mather, 1915, pp. 167–168, pl. 10, fig. 9.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 148, Fayetteville, Arkansas; Mather, donor.

Pustula laevicula Moore, 1928

Holotype, not designated, to be selected from UC 32109.

Referred specimens: UC 32109, two pedicle valves.

Moore, 1928, p. 269, pl. 11, figs. 13, 14.
= *Avonia laevicula* (Moore, 1928)
Branson, 1938a, pp. 38–39, pl. 3, figs. 4–6.
Mississippian, Base of Burlington Limestone (Sedalia Limestone?).
Lovers Leap, Hannibal, Missouri; collected by Moore.

Pustula nebraskensis (Owen, 1852)
Referred specimen: UC 16156, a pedicle valve.
Mather, 1915, pp. 169–171, pl. 9, fig. 6.
Pennsylvanian, Kessler Limestone.
Mather, 1915 station 144, near Brentwood, Arkansas; Mather, donor.

Referred specimen: UC 16157, a pedicle valve.
Mather, 1915, pp. 169–171, pl. 9, fig. 7.
Pennsylvanian, Morrow Formation.
Mather, 1915 station 304, Gore, Oklahoma; Mather, donor.

Pustula newarkensis Moore, 1928
Holotype, not designated, to be selected from UC 32153.

Referred specimens: UC 32153, 13 specimens.
Moore, 1928, pp. 270–271, pl. 11, figs. 8–10, 15, 18, 19.
= *Avonia newarkensis* (Moore, 1928)
Branson,1938a, pp. 37–38, pl. 3, figs. 16, 18–20.
Mississippian, Chouteau Limestone Bed no. 3.
Snake Den on Little Fabius River near Newark, Knox County, Missouri; collected by Moore.

Pustula pertenuis (Meek, 1872)
Referred specimen: UC 16129, a pedicle valve.
Mather, 1915, pp. 165–166, pl. 9, figs. 9–9a.
Pennsylvanian, Morrow Formation.
Mather, 1915 station 304, Gore, Oklahoma; Mather, donor.

Pustula punctata (Martin, 1809)
Referred specimen: UC 16158, a pedicle valve.
Mather, 1915, pp. 172–174, pl. 8, fig. 11.
Pennsylvanian, Hale Formation.
Mather, 1915 station 137, East Mountain, Fayetteville, Arkansas; Mather, donor.

Pustula sp.
See: *Echinoconchus* sp.

Quadratia batesvillensis (Girty, 1911)
See: *Productella hirsutiformis* var. *batesvillensis* Girty, 1911.

Quadratia hirsutiformis (Walcott, 1884)
See: *Productella hirsutiformis* (Walcott, 1884)

Rafinesquina alternata (Emmons, 1842)
Referred specimens: UC 11946, a pedicle and brachial valve.
Hall and Clarke, 1892a, pl. 20, figs. 27, 28.
Ordovician, Cincinnatian Series.
Cincinnati, Ohio; Hall Collection.

Rafinesquina declivis (James, 1874)
See: *Strophomena declivis* James, 1874.

Rafinesquina declivis subnutans Roy, 1941
Holotype: original designation P 28269.
Roy, 1941, pp. 95–96, text figs. 59a, 59b.
Ordovician, Richmond Group.
Silliman's Fossil Mount, Frobisher Bay, Baffin Land; collected by Roy, 1927.

Rafinesquina jeffersonensis Bradley, 1930
Holotype, not designated, to be selected from UC 28990.
Referred specimens: UC 28990, five single valves.
Bradley, 1930, pp. 225–226, pl. 24, figs. 1–4.
Ordovician, Kimmswick Limestone.
Glencoe Lime Co., Glen Park, Missouri; collected by S. Weller, 1896.
Referred specimens: UC 28991, three specimens.
Bradley, 1930, pp. 225–226, pl. 24, fig. 6.
Referred specimens: UC 28992, three specimens.
Bradley, 1930, pp. 225–226, pl. 24, fig. 7.
Ordovician, Kimmswick Limestone.
One and one-quarter miles south of Batchtown, Illinois; collected by Bradley.

Referred specimen: UC 28997, two specimens.
Bradley, 1930, pp. 225–226, pl. 24, fig. 5.

Ordovician, Kimmswick Limestone.

One and one-quarter miles south of Batchtown, Illinois; collected by Univ. Chicago Calhoun County Expedition, 1906.

Rafinesquina minnesotensis (Winchell, 1881)

Referred specimen: UC 25512, a brachial valve.
C. L. Fenton, 1928a, pp. 130–131, pl. 2, fig. 8.

Ordovician, Plattin Formation.

Gabori Creek, Ste. Genevieve County, Missouri; Fenton Collection.

Rafinesquina productiformis Roy, 1941

Holotype: original designation P 28270, ventral valve.
Roy, 1941, p. 96, text fig. 60.

Ordovician, Richmond Group.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; collected by Roy, 1927.

Rafinesquina pronis Roy, 1941

Holotype: original designation P 28267, pedicle valve.
Roy, 1941, pp. 94–95, text fig. 58a.

Referred specimens: P 28268, four specimens.
Roy, 1941, pp. 94–95, text fig. 58b.

Ordovician, Richmond Group.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; collected by Roy and Robinson, 1927.

Rafinesquina squamula (James, 1874)

See: *Strophomena squamula* James, 1874.

Rafinesquina ulrichi (James, 1878)

See: *Strophomena ulrichi* James, 1878.

Rafinesquina sp.

Referred specimen: P 28271.
Roy, 1941, pp. 96–97, text fig. 61.

Ordovician, Richmond.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; Roy Collection.

Rensselaeria cayuga Hall and Clarke, 1895

Holotype: UC 12218.

Hall and Clarke, 1895a, p. 370, pl. 75, figs. 1, 2.
Hall and Clarke, 1895b, p. 370, pl. 13, figs. 14, 15.
Hall and Clarke, 1895c, p. 370, pl. 13, figs. 14, 15.
Grabau and Shimer, 1909, p. 301, text fig. 374.

Devonian, Oriskany Sandstone.

Hall locality 255, "Canada West. April 1879. Collection purchased of Edmund De Cew. Including some Corniferous and Grit."

Published locality, Cayuga, Ontario, Canada; Hall Collection.

Rensselaeria marylandica Hall, 1859

Referred specimen: UC 12219.

Hall and Clarke, 1893, p. 258.
Hall and Clarke, 1894, pl. 50, fig. 7.
Hall and Clarke, 1895a, pl. 76, fig. 10.

Referred specimens: UC 12220, two incomplete valves.

Hall and Clarke, 1893, p. 258.
Hall and Clarke, 1894, pl. 50, figs. 5, 6.
Hall and Clarke, 1895a, pl. 76, figs. 19, 20.

Devonian, Oriskany Sandstone.

Hall locality 256, "Cumberland, Maryland, Andrews Collection"; Hall Collection.

Rensselaeria ovoides (Eaton, 1832)

Referred specimen: UC 12221, a single valve.

Hall and Clarke, 1895a, pl. 75, fig. 9.

Devonian, Oriskany Sandstone.

Knox, New York; Hall Collection.

Referred specimen: UC 12222, a single valve.

Hall and Clarke, 1894, pl. 50, fig. 15.
Hall and Clarke, 1895a, pl. 75, fig. 6.

Devonian, Oriskany Sandstone.

Springport, Cayuga County, New York; Hall Collection.

Referred specimens: UC 27506, four specimens.
Stewart *in* Branson, 1922, pp. 242–243, pl. 64, figs. 8–12.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Rensselaeria ovulum Hall and Clarke, 1895

Holotype, not designated, to be selected from UC 12217.

Referred specimens: UC 12217, two specimens.
Hall and Clarke, 1895a, pl. 75, figs. 3, 4.
Hall and Clarke, 1895b, p. 370, pl. 14, figs. 15, 16.
Hall and Clarke, 1895c, p. 370, pl. 14, figs. 15, 16.

Devonian, Oriskany Sandstone.

Cayuga, Ontario, Canada; Hall Collection.

Rensselaeria cf. **stewarti** Clarke, 1907

Referred specimens: UC 27505, two specimens.
Stewart *in* Branson, 1922, p. 243, pl. 64, figs. 14, 15.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *R. stewarti*=*Pleurothyris stewarti* (Clarke, 1907)
Cloud, 1942, pp. 123–124.
R. stewarti=*Cloudella stewarti* (Clarke, 1907)
Boucot and Johnson, 1963, p. 123.

Rensselaeria subglobosa S. Weller, 1903

Holotype, not designated, to be selected from UC 10459.

Referred specimens: UC 10459, four specimens.
S. Weller, 1903, p. 329, pl. 42, figs. 11–18.

Devonian, Lower Oriskany.

S. Weller, 1903 locality 2A[33], Nearpass Section, New Jersey; New Jersey Collection.

Rensselaerina medioplicata Dunbar, 1917

Referred specimen: UC 23943.
Tansey *in* Branson, 1922, pp. 196–197, pl. 50, figs. 25, 26.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; S. Weller Collection.

Rensselaerina medioplicata var. **latior** Dunbar, 1917
Referred specimens: UC 21037, nine specimens.
Tansey *in* Branson, 1922, p. 197, pl. 53, figs. 21–24, pl. 54, figs. 1–4.
Devonian, Bailey Limestone (chert).
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Rensselandia missouriensis (Swallow *in* Hall, 1891)
See: *Newberria missouriensis* Swallow *in* Hall, 1891.

Retichonetes logani (Norwood and Pratten, 1855)
See: *Chonetes logani* Norwood and Pratten, 1855.

Reticularia cooperensis (Swallow, 1860)
Referred specimen: UC 5933, a brachial valve.
S. Weller, 1900, p. 80, pl. 2, fig. 11.
Mississippian, Chonopectus Sandstone.
Burlington, Iowa; S. Weller Collection.

Referred specimens: UC 9701, seven specimens.
S. Weller, 1914, pp. 428–429, pl. 75, figs. 26–30.
= *Reticularia*? *cooperensis* (Swallow, 1860)
Carter, 1967, pp. 405–406.
Mississippian, Chouteau Limestone.
Pettis County, Missouri; Sampson Collection.
See also: *Spirifer* cf. *S. hirtus* White and Whitfield, 1862.

Reticularia cf. **hirtus** (White and Whitfield, 1862)
See: *Spirifer* cf. *S. hirtus* White and Whitfield, 1862.

Reticularia inconsueta Fenton and Fenton, 1924
Referred specimens: UC 25887 (not UC 25882), three specimens.
Fenton and Fenton, 1924, pp. 167–169.
Devonian, Hackberry Stage, Spirifer Zone.
Bird Hill, Rockford, Iowa; Fenton Collection.

Reticularia pseudolineata (Hall, 1858)
Referred specimen: UC 10764.

S. Weller, 1914, pp. 429–431, pl. 75, fig. 20.
Mississippian, Osage Chert.
Springfield, Missouri; S. Weller Collection.

Referred specimens: UC 13737, three specimens.
S. Weller, 1914, pp. 429–431, pl. 74, figs. 6–9.
=*Torynifer pseudolineatus* (Hall, 1858)
Cooper *in* Shimer and Shrock, 1944, p. 327, pl. 126, figs. 4–6.
Pitrat *in* Moore, 1965, p. 724, text figs. 589, 1a–c.
Mississippian, Keokuk Limestone.
Hall locality 399, "a small collection from Roessler, Warsaw, Cox and Anderson of Keokuk. In return for books sent, 1896—mostly Brachiopoda."
Published locality, Keokuk, Iowa; Hall Collection.

Reticularia salemensis S. Weller, 1914
Holotype: original designation UC 7558.
S. Weller, 1914, pp. 433–435, pl. 75, figs. 15–19.
Mississippian, Salem Limestone.
Lanesville, Indiana; Gurley Collection.

Reticularia setigera (Hall, 1858)
Referred specimens: UC 13972, seven specimens.
S. Weller, 1914, pp. 431–433, pl. 74, figs. 17, 18.
Mississippian, Seneca Chert.
Seneca, Missouri.
See also: *Spirifer setigerus* Hall, 1858.

Reticularia tenuispinata (Herrick, 1888)
See: *Spirifer* (*Martinia*) *tenuispinatus* Herrick, 1888.

Reticulariina spinosa (Norwood and Pratten, 1855)
See: *Spiriferina spinosa* (Norwood and Pratten, 1855).

Retzia circularis? (S. A. Miller, 1892)
Referred specimen: UC 13907.
S. Weller, 1909, p. 317, pl. 12, fig. 23.
= *Hustedia circularis* (S. A. Miller, 1892)
S. Weller, 1914, p. 451.

Mississippian, Fern Glen Formation.

Fern Glen, Missouri; collected by S. Weller, 1906.

Rhipidomella altirostris Mather, 1915

Holotype: original designation UC 16135.
Mather, 1915, pp. 143–144, pl. 8, figs. 5–5c.

Pennsylvanian, Hale Formation.

Mather, 1915 station 139, East Mountain, Fayetteville, Arkansas; Mather, donor.

Remarks: UC 16135 has been sectioned and partially destroyed.

Rhipidomella arkansana Girty, 1911

Referred specimen: UC 16841, a single valve.
Snider, 1915, p. 76.

Mississippian, Mayes Formation.

Snider, 1915 locality M8a, near Chouteau, Oklahoma; Snider, donor.

Referred specimen: UC 16842, a single valve.
Snider, 1915, p. 76.

Mississippian, Mayes Formation.

Snider, 1915 locality M4, near Ft. Gibson, Oklahoma; Snider, donor.

Rhipidomella burlingtonensis (Hall, 1858)

Referred specimen: UC 4470A, a pedicle valve.
S. Weller, 1899, p. 15, pl. 4, fig. 13.

Mississippian, Northview Sandstone.

S. Weller, 1899 locality 1A, Northview, Missouri; collected by S. Weller, 1896.

Referred specimen: UC 6656, a single valve.
S. Weller, 1901, p. 150, pl. 12, fig. 3.

Mississippian, Kinderhook Bed no. 3.

Burlington, Iowa; S. Weller Collection.

Referred specimen: UC 6670, a pedicle valve.
S. Weller, 1901, pp. 181–182, pl. 16, fig. 6.

= *Rhipidomella thiemei* (White, 1880)
S. Weller, 1914, pp. 155–157, pl. 21, fig. 8.

Mississippian, Kinderhook Bed no. 6.
Burlington, Iowa; S. Weller Collection.

Referred specimens: UC 7858, four specimens.
S. Weller, 1914, pp. 149–150, pl. 21, fig. 2, pl. 83, figs. 7, 8.
Mississippian, Burlington Limestone.
Burlington, Iowa; Gurley Collection.

Referred specimen: UC 13045.
S. Weller, 1914, pp. 149–151, pl. 21, fig. 7.
Mississippian, Burlington chert.
Pike County, Missouri; Hall Collection.
See also: *Orthis* (*Rhipidomella*) *burlingtonensis* Hall, 1858.

Rhipidomella diminutiva Rowley, 1900
Referred specimens: UC 8552, three specimens.
S. Weller, 1914, pp. 153–155, pl. 20, figs. 16–18.
Mississippian, Pierson Limestone.
Near Springfield, Missouri; S. Weller Collection.

Referred specimens: UC 14222, six specimens.
S. Weller, 1914, pp. 153–155, pl. 20, figs. 12–15.
Mississippian, Lower Burlington, White Chert.
Louisiana, Missouri; Gurley Collection.

Rhipidomella discus (Hall, 1859)
Referred specimen: UC 21056, a single valve.
Tansey *in* Branson, 1922, pp. 184–185, pl. 45, fig. 14.

Referred specimens: UC 21057, three specimens.
Tansey *in* Branson, 1922, pp. 184–185, pl. 45, figs. 9–13, 15, 16.
Devonian, Bailey Limestone (chert).
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Rhipidomella dubia (Hall, 1856)
Referred specimens: UC 25391, two specimens.
S. Weller, 1920, p. 351, pl. 8, figs. 5, 6.
Mississippian, Fredonia Limestone.
S. Weller, 1920 locality W15-15, Rosiclare, Illinois; collected by S. Weller, 1915.
Remarks: *R. dubia*=*Rhipidomella* (*Perditocardinia*) *dubia* (Hall, 1856)

Schuchert and Cooper, 1931, p. 246.
R. dubia= *Perditocardinia dubia* (Hall, 1856)
Wright *in* Moore, 1965, p. 343.
See also: *Orthis* (*Rhipidomella*) *dubia* Hall, 1856.

Rhipidomella ellsworthi Tansey, 1922
= *Rhipidomelloides ellsworthi* (Tansey, 1922)
Boucot and Amsden *in* Amsden and Boucot, 1958, p. 167.
Holotype, not designated, to be selected from UC 21043, UC 21044, and UC 21045.

Referred specimens: UC 21043, two single valves.
Tansey *in* Branson, 1922, p. 185, pl. 45, figs. 38, 39.

Referred specimens: UC 21044, two specimens.
Tansey *in* Branson, 1922, p. 185, pl. 45, figs. 34, 35.

Referred specimens: UC 21045, five specimens.
Tansey *in* Branson, 1922, p. 185, pl. 45, figs. 17–33.
Devonian, Bailey Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.
Remarks: *Rhipidomelloides* Boucot and Amsden, 1958= *Rhipidomella* Oehlert, 1890
Wright *in* Moore, 1965, pp. 341–342.

Rhipidomella emarginata (Hall, 1859)
Referred specimens: UC 27480, three single valves.
Stewart *in* Branson, 1922, p. 230, pl. 61, figs. 3–5.
Devonian, Little Saline Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.
Remarks: *R. emarginata*= *Rhipidomelloides emarginata* (Hall, 1859)
Boucot and Amsden *in* Amsden and Boucot, 1958, p. 167.
Rhipidomelloides Boucot and Amsden, 1958 = *Rhipidomella* Oehlert, 1890)
Wright *in* Moore, 1965, pp. 341–342.

Rhipidomella jerseyensis S. Weller, 1914
Holotype, not designated, to be selected from UC 4692, UC 7843, and UC 4691.

Referred specimens: UC 4692, three single valves.
S. Weller, 1914, pp. 157–158, pl. 20, figs. 41–43.
Mississippian, Fern Glen Formation.
S. Weller, 1914 locality 9, near Kimmswick, Missouri; S. Weller Collection.

Referred specimens: UC 7843, two specimens.
S. Weller, 1914, pp. 157–158, pl. 20, figs. 36–39.
Mississippian, Kinderhook, Fern Glen Formation.
Elsah, Illinois; Gurley Collection.

Referred specimens: UC 4691.
See: *Rhipidomella michelinia* L'Éveille, 1835.

Rhipidomella melvillei Tansey, 1922
Holotype, not designated, to be selected from UC 21061 and UC 21093.

Referred specimen: UC 21061, a pedicle valve.
Tansey *in* Branson, 1922, p. 185, pl. 46, fig. 17.

Referred specimens: UC 21093, five specimens.
Tansey *in* Branson, 1922, p. 185, pl. 46, figs. 1–16.
Devonian, Bailey Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Rhipidomella michelinia L'Éveille, 1835
Referred specimens: UC 4691, three specimens.
S. Weller, 1909, pp. 295–296, pl. 12, figs. 8–10.
= "cotypes" of *Rhipidomella jerseyensis* S. Weller, 1914.
S. Weller, 1914, pp. 157–158, pl. 20, fig. 40.
Mississippian, Fern Glen Limestone.
Near Kimmswick, Missouri; S. Weller Collection.

Rhipidomella missouriensis (Swallow, 1860)
Referred specimens: UC 6692, 12 specimens.
S. Weller, 1914, pp. 148–149, pl. 20, figs. 1–8.
Cooper *in* Shimer and Shrock, 1944, p. 355, pl. 139, figs. 11–14.
Mississippian, Louisiana Limestone.
Louisiana, Missouri; Gurley Collection.
See also: *Orthis* (*Rhipidomella*) *missouriensis* Swallow, 1860.

Rhipidomella musculosa (Hall, 1857)

Referred specimen: UC 11934, a pedicle valve.
Hall and Clarke, 1892a, pl. 6A, fig. 5.
Devonian, Oriskany Sandstone.
Hall locality 256, "Cumberland, Maryland. Andrews Collection"; Hall Collection.

Referred specimens: UC 27479, three single valves.
Stewart *in* Branson, 1922, p. 230, pl. 61, figs. 6–8.
Devonian, Little Saline Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *R. musculosa*=*Rhipidomelloides musculosa* (Hall, 1857) Boucot and Amsden *in* Amsden and Boucot, 1958, p. 167.
Rhipidomelloides Boucot and Amsden, 1958 = *Rhipidomella* Oehlert, 1890
Wright *in* Moore, 1965, pp. 341–342.

Rhipidomella oblata (Hall, 1857)

Referred specimen: UC 10471.
S. Weller, 1903, pp. 304 and 350, pl. 46, fig. 5.
Devonian, Oriskany.
S. Weller, 1903 locality 6A, near Montigue P. O., New Jersey; New Jersey Collection.

Referred specimens: UC 21055, four single valves.
Tansey *in* Branson, 1922, p. 184, pl. 45, figs. 5–8.

Referred specimens: UC 21095, two specimens.
Tansey *in* Branson, 1922, p. 184, pl. 44, figs. 32–33, pl. 45, figs. 1–4.
Devonian, Bailey Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *R. oblata*=*Rhipidomelloides oblata* (Hall, 1857) Boucot and Amsden *in* Amsden and Boucot, 1958, p. 176.
Rhipidomelloides Boucot and Amsen, 1958 = *Rhipidomella* Oehlert, 1890
Wright *in* Moore, 1965, pp. 341–342.

Rhipidomella oweni (Hall and Clarke, 1892)

Referred specimens: UC 4675, five specimens.

S. Weller, 1914, pp. 151–153, pl. 21, figs. 1, 2.
Cooper *in* Shimer and Shrock, 1944, p. 355, pl. 139, figs. 18, 19.
Mississippian, Kinderhook Group, New Providence Shale.
Button Mould Knob, Bullett County, Kentucky; Beachler, donor.

Referred specimens: UC 7857, 11 specimens.
S. Weller, 1914, pp. 151–153, pl. 21, figs. 3, 4.
Cooper *in* Shimer and Shrock, 1944, p. 355, pl. 139, fig. 20.
Mississippian, Kinderhook Group, Knobstone.
Button Mould Knob, Kentucky; Gurley Collection.

Rhipidomella pecosi (Marcou, 1858)
Referred specimen: UC 16099.
Mather, 1915, pp. 144–145, pl. 8, figs. 3–3a.
Pennsylvanian, Brentwood Limestone.
Mather, 1915 station 210, Sawney Hollow, Oklahoma; Mather, donor.

Rhipidomella sp. cf. **R. penelope** (Hall, 1860)
See: *Orthis* sp.? cf. *Orthis* (*Rhipidomella*) *penelope* Hall, 1860.

Rhipidomella penniana (Derby, 1874)
Referred specimens: UC 11914, three specimens.
Hall and Clarke, 1892a, pl. 7, figs. 5–10.
Upper Carboniferous.
Itaitubá, Brazil; Hall Collection.

Rhipidomella (Perditocardinia) dubia (Hall, 1856)
See: *Orthis* (*Rhipidomella*) *dubia* Hall, 1856.
Rhipidomella dubia (Hall, 1856).

Rhipidomella preoblata S. Weller, 1903
Holotype, not designated, to be selected from UC 10403.

Referred specimens: UC 10403, two specimens.
S. Weller, 1903, p. 232, pl. 20, figs. 25, 26.
=?*Rhipidomelloides preoblata* (S. Weller, 1903)
Boucot and Amsden *in* Amsden and Boucot, 1958, p. 169.
Silurian, Decker Ferry.

S. Weller, 1903 locality 2A[8], William Nearpass Quarry, New Jersey, two miles south of Tri-States, New York; New Jersey Collection.

Remarks: *Rhipidomelloides* Boucot and Amsden, 1958=*Rhipidomella* Oehlert, 1890

Wright *in* Moore, 1965, pp. 341–342.

Rhipidomella tenuicostata S. Weller, 1914

Holotype, not designated, to be selected from UC 9673.

Referred specimens: UC 9673 [not 6973], 19 specimens.
S. Weller, 1914, pp. 158–160, pl. 20, figs. 27–29.
Branson, 1938a, p. 43, pl. 5, figs. 23, 24.

Mississippian, Chouteau Limestone.

Pettis County, Missouri; Sampson Collection.

Rhipidomella thiemei (White, 1880)

See: *Rhipidomella burlingtonensis* (Hall, 1858) UC 6670.

Rhipidomella sp.

Referred specimens: UC 14220, five specimens.
S. Weller, 1914, pl. 20, figs. 19–21.

Mississippian, Kinderhook, Fern Glen Formation.

S. Weller, 1914 locality 9, near Kimmswick, Missouri; collected by S. Weller.

Rhipidomelloides ellsworthi (Tansey, 1922)

See: *Rhipidomella ellsworthi* Tansey, 1922.

Rhipidomelloides emarginata (Hall, 1859)

See: *Rhipidomella emarginata* (Hall, 1859).

Rhipidomelloides musculosa (Hall, 1857)

See: *Rhipidomella musculosa* (Hall, 1857).

Rhipidomelloides oblata (Hall, 1857)

See: *Rhipidomella oblata* (Hall, 1857).

Rhipidomelloides preoblata (S. Weller, 1903)

See: *Rhipidomella preoblata* S. Weller, 1903.

Rhynchocamara bella (C. L. Fenton, 1928)

See: *Camarella bella* C. L. Fenton, 1928.

Rhynchonella agglomerata S. Weller, 1903

Holotype, not designated, to be selected from UC 10406 and UC 10407.

Referred specimen: UC 10406.

S. Weller, 1903, pp. 234–235, pl. 21, figs. 5–8.

=*Camarotoechia litchfieldensis* (Schuchert, 1903)

Schuchert and Maynard, 1913, p. 353.

Silurian, Decker Ferry.

S. Weller, 1903 locality 2A[3], William Nearpass Quarry, New Jersey, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Referred specimen: UC 10407.

S. Weller, 1903, pp. 234–235, pl. 21, figs. 9–11.

=*Camarotoechia litchfieldensis* (Schuchert, 1903)

Schuchert and Maynard, 1913, p. 353.

Silurian, Decker Ferry.

S. Weller, 1903 locality 2A[12], William Nearpass Quarry, New Jersey, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Rhynchonella altiplicata Hall, 1859

Referred specimen: UC 8496.

S. Weller, 1903, p. 282, pl. 29, figs. 20–23.

Devonian, Helderberg Group.

Oriskany Falls, New York; Gurley Collection.

Referred specimen: UC 10438.

S. Weller, 1903, p. 282, pl. 29, figs. 24–27.

Devonian, Coeyman's Limestone.

S. Weller, 1903 locality 37A, Peter's Valley, New Jersey; New Jersey Collection.

Rhynchonella bialveata Hall, 1859

Referred specimens: UC 10458, two specimens.

S. Weller, 1903, pp. 327–328, pl. 42, figs. 9, 10.

Devonian, Lower Oriskany.

S. Weller, 1903 locality 2A[33], Nearpass Section, New Jersey; New Jersey Collection.

Referred specimens: UC 21040, two specimens.
Tansey *in* Branson, 1922, pp. 195–196, pl. 50, figs. 21–24.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Rhynchonella breviplicata S. Weller, 1903

Holotype, not designated, to be selected from UC 10472.

Referred specimens: UC 10472, a brachial and a pedicle valve.
S. Weller, 1903, pp. 350–351, pl. 46, figs. 2–4.

Devonian, Oriskany.

S. Weller, 1903 locality 6A, near Montique P. O., New Jersey; New Jersey Collection.

Rhynchonella deckerensis S. Weller, 1903

Referred specimen: UC 10405.
S. Weller, 1903, p. 234, pl. 21, figs. 1–4.

= *Stenochisma deckerensis* (S. Weller, 1903)
Schuchert and Maynard, 1913, pp. 349–350.

= *Rhynchotrema deckerense* (S. Weller, 1903)
Bassler, 1915, p. 1123.

Silurian, Decker Ferry.

S. Weller, 1903 locality 8A, "on the next farm south of that upon which the William Nearpass Quarry is located," two miles south of Tri-States, New York, in New Jersey; S. Weller Collection.

Remarks: UC 10405 is one of the specimens originally figured by S. Weller, 1903. It is not known whether a holotype has been designated.

Rhynchonella increbescens Hall, 1860

Referred specimens: UC 12409, a pedicle and a brachial valve.
Hall, 1860, pp. 66–68, figs. 12–14.

= *Rhynchotrema capax* (Conrad, 1842)
Hall and Clarke, 1893, pp. 182–185.
Hall and Clarke, 1895a, pl. 56, figs. 17, 18, 20, 21; pl. 83, fig. 31.

Ordovician, Richmond Beds.

Iron Ridge, Wisconsin; Hall Collection.

Remarks: Hall and Clarke, 1893, p. 184 state "the original specimens from which this account was derived are now before us." UC 12409 may be these specimens. It is not known whether a holotype has been designated.

Rhynchonella magnicostata Burwash, 1913

Holotype, not designated, to be selected from UC 15369.

Referred specimens: UC 15369, two specimens.
Burwash, 1913, p. 89, pl. 3, figs. 9a–9c.

Cretaceous.

Maude Island, Queen Charlotte Islands, Canada; Arthur Church, donor.

Rhynchonella mutata(?) Hall, 1858

Referred specimen: UC 4966.
S. Weller, 1897, p. 257, pl. 19, figs. 13–15.

= *Pugnax mutata* (Hall, 1858)
S. Weller, 1898, p. 517.

Mississippian, Batesville Sandstone.

S. Weller, 1897 locality 2B, Batesville, Arkansas; collected by S. Weller, 1896.

Rhynchonella non-sinuata cf. **R. plicatilis** (Sowerby, 1825), Burwash, 1913

Holotype: UC 15368.
Burwash, 1913, p. 88, pl. 3, figs. 8a, 8b.

Referred specimens: UC 15392, 15 specimens.
Burwash, 1913, p. 88.

= *Rhynchonella plicatilis* (Sowerby, 1825) museum catalogue

Cretaceous.

Maude Island, Queen Charlotte Islands, Canada; Arthur Church, donor.

Rhynchonella plicatilis (Sowerby, 1825)

See: *Rhynchonella non-sinuata* cf. *R. plicatilis* (Sowerby, 1825), Burwash, 1913.

Rhynchonella semiplicata (Conrad, 1841)

Referred specimen: UC 10437.
S. Weller, 1903, pp. 281–282, pl. 29, figs. 12–15.

Devonian, Coeyman's Limestone.

S. Weller, 1903 locality 109A, Flatbrookville, New Jersey; New Jersey Collection.

Rhynchonella transversa Hall, 1857

Referred specimens: UC 21042.
Tansey *in* Branson, 1922, p. 195, pl. 50, fig. 17.

Referred specimens: UC 21092, six specimens.
Tansey *in* Branson, 1922, p. 195, pl. 50, figs. 5–16, 18–20.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Rhynchonella undulata Burwash, 1913

Holotype: UC 15367.
Burwash, 1913, p. 87, pl. 3, figs. 7a–7c.

Cretaceous.

Maude Island, Queen Charlotte Islands, Canada; Arthur Church, donor.

Rhynchonella sp.

Referred specimens: UC 5930, two pedicle valves.
S. Weller, 1900a, p. 74, pl. 2, figs. 4, 5.

Mississippian, Chonopectus Sandstone.

Burlington, Iowa; S. Weller Collection.

Rhynchopora beecheri Greger, 1904

Referred specimens: UC 376, 11 specimens.
S. Weller, 1914, pp. 232–233, pl. 29, figs. 31–38.

Mississippian, Residuary Chert.

Springfield, Missouri; S. Weller Collection.

Rhynchopora ? cooperensis (Shumard, 1855)

Referred specimen: UC 8548.
S. Weller, 1914, pp. 235–237, pl. 30, figs. 22–25.

= *Rhynchopora cooperensis* (Shumard, 1855)

Branson, 1938a, pp. 53–54.
Mississippian, Pierson Limestone.
Near Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 9661.
S. Weller, 1914, pp. 235–237, pl. 30, figs. 7–11.
Mississippian, Chouteau Limestone.
Chouteau Springs, Missouri; Sampson Collection.

Rhynchopora hamburgensis S. Weller, 1910
Holotype, not designated, to be selected from UC 7742.

Referred specimens: UC 7742, 16 specimens.
S. Weller, 1910, p. 515, text figs. 17a–k.
S. Weller, 1914, pp. 228–230, text figs. 20a–k, pl. 29, figs. 19–30.
Mississippian, Hamburg Oolite.
Hamburg, Illinois; Gurley Collection.

Rhynchopora magnicosta Mather, 1915
Holotype: original designation UC 16137.
Mather, 1915, pp. 176–178, pl. 10, figs. 11–11c.

Referred specimen: UC 16576.
Mather, 1915, pp. 176–178.
Pennsylvanian, Brentwood Limestone.
Mather, 1915, station 150, near Fayetteville, Arkansas; Mather, donor.

Rhynchopora persinuata (Winchell, 1865)
Referred specimen: UC 6712.
S. Weller, 1914, pp. 233–235, pl. 30, fig. 2.
Mississippian, Kinderhook Bed no. 7.
Burlington, Iowa; Gurley Collection.

Rhynchopora pustulosa (White, 1860)
Referred specimen: UC 4821, a pedicle valve.
S. Weller, 1914, pp. 230–232, pl. 24, fig. 82.
Mississippian, Kinderhook Bed no. 4.
S. Weller, 1914 locality 8, Flint River, near Burlington, Iowa; collected by S. Weller, 1902.

Referred specimen: UC 9690.
S. Weller, 1914, pp. 230–232, pl. 29, figs. 14–18.
Mississippian, Kinderhook Bed no. 4.
Burlington, Iowa; S. Weller Collection.

Rhynchopora sp.

Referred specimen: UC 6716, pedicle valve.
S. Weller, 1914, pl. 30, fig. 16.
Mississippian, Burlington Limestone.
Burlington, Iowa; Gurley Collection.

Referred specimen: UC 13958, a brachial valve.
S. Weller, 1914, pl. 30, fig. 17.
Mississippian, Burlington Limestone.
S. Weller, 1914 locality 24, Springfield, Missouri; S. Weller Collection.

Rhynchospira attenuata Stewart, 1922

Holotype: original designation UC 27497, a single valve.
Stewart *in* Branson, 1922, p. 248, pl. 65, fig. 3.
Devonian, Upper Little Saline Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.
Remarks: *Rhynchospira* Hall, 1859=*Rhynchospirina* Schuchert and LeVene, 1929
Schuchert and LeVene, 1929, p. 108.

Rhynchospira formosa (Hall, 1857)

Referred specimens: UC 10410, two specimens.
S. Weller, 1903, pp. 240–241, pl. 21, figs. 30–34.
Silurian, Decker Ferry.
S. Weller, 1903 locality $2A^{12}$, William Nearpass Quarry, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Referred specimen: UC 10444.
S. Weller, 1903, p. 289, pl. 31, figs. 9–11.
Devonian, Coeyman's Limestone.
S. Weller, 1903 locality 15C, near Hainesville, New Jersey; New Jersey Collection.

Referred specimens: UC 21111, four specimens.
Tansey *in* Branson, 1922, p. 201, pl. 52, figs. 5–14.

Referred specimens: UC 21064, four specimens.
Tansey *in* Branson, 1922, p. 201, pl. 52, figs. 15–18.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *Rhynchospira* Hall, 1857=*Rhinchospirina* Schuchert and LeVene, 1929

Schuchert and LeVene, 1929, p. 108.

Rhynchospira formosa=Rhynchospirina formosa (Hall, 1857)

Boucot, Johnson and Staton *in* Moore, 1965, p. 652.

Rhynchospira scansa Hall and Clarke, 1893

Holotype, not designated, to be selected from UC 12382.

Referred specimens: UC 12382, two single valves.
Hall and Clarke, 1893, p. 111.
Hall and Clarke, 1895a, pl. 50, fig. 45.
Hall and Clarke, 1895b, p. 360, pl. 9, fig. 2.
Hall and Clarke, 1895c, p. 360, pl. 9, fig. 2.

Mississippian, Waverly Group.

Hall locality on specimen, "Conglomerate–McKean County, Pennsylvania between Bradford and Farmers Valley Below Millstone Grit Sherwood—"; Hall Collection.

Remarks: *Rhynchospira* Hall, 1859=*Rhynchospirina* Schuchert and LeVene, 1929

Schuchert and LeVene, 1929, p. 108.

Rhynchospira sp.

Referred specimens: UC 12381, two specimens.
Hall and Clarke, 1895a, pl. 50, fig. 44.

Mississippian, Waverly Group

Northwestern Pennsylvania; Hall Collection.

Rhynchospirina formosa (Hall, 1857)

See: *Rhynchospira formosa* (Hall, 1857).

Rhynchotrema anticostiense breve Roy, 1941

Holotype: original designation P 28278.

Roy, 1941, pp. 100–101, text figs. 67a, 67b.
Ordovician, Richmond Group.
Silliman's Fossil Mount, Frobisher Bay, Baffin Land; collected by Roy, 1927.

Rhynchotrema capax (Conrad, 1842)
Referred specimens: UC 12403, two pedicle valves.
Hall and Clarke, 1893, pp. 182–185.
Hall and Clarke, 1895a, pl. 56, figs. 16, 23.
Ordovician, Richmond Beds.
Richmond, Indiana; Hall Collection.
See also: *Rhynchonella increbescens* Hall, 1860.

Rhynchotrema capax arcticum Roy, 1941
Holotype: original designation P 28277.
Roy, 1941, p. 100, text figs. 66a–c.
Ordovician, Richmond Group.
Silliman's Fossil Mount, Frobisher Bay, Baffin Land; collected by Robinson, 1927.

Rhynchotrema cuneiforme Fenton and Fenton, 1922
Holotype: original designation UC 25639 [crushed since illustrated].
Fenton and Fenton, 1922, p. 72, pl. 1, figs. 12–14.
Referred specimens: UC 25693, six specimens.
Fenton and Fenton, 1922, p. 72.
Ordovician, Plattin Formation.
South Becket Hill, Ste. Genevieve County, Missouri; Fenton Collection.

Rhynchotrema deckerense (S. Weller, 1903)
See: *Rhynchonella deckerensis* S. Weller, 1903.

Rhynchotrema decorahense Fenton and Fenton, 1922
Holotype: original designation UC 25632.
Fenton and Fenton, 1922, pp. 72–73, pl. 1, figs. 9–11.
Referred specimens: UC 25631 [not UC 25611], three specimens.
Fenton and Fenton, 1922, pp. 72–73.
Ordovician, Decorah Shale.
"Dugway," Decorah, Iowa; Fenton Collection.

Rhynchotrema dentata (Hall, 1847)

Referred specimen: UC 10308.
S. Weller, 1903, pp. 159–160, pl. 10, figs. 19–22.

= *Rhynchotrema dentatum* (Hall, 1847)
Bassler, 1915, p. 1124.

Ordovician, Trenton Limestone.

S. Weller, 1903 locality 174A, Jacksonburg, New Jersey; New Jersey Collection.

Rhynchotrema dentatum (Hall, 1847)

Referred specimen: UC 27442.
Fenton and Fenton, 1922, p. 75, pl. 2, figs. 14–16.

Ordovician, Richmond Group.

Richmond, Indiana; James Collection.

See also: *Rhynchotrema dentata* (Hall, 1847).

Rhynchotrema formosa (Hall, 1857)

Referred specimen: UC 10456.
S. Weller, 1903, pp. 309 and 328, pl. 36, figs. 12–15.

Devonian, Becraft Limestone.

S. Weller, 1903 locality $2A^{31}$, Nearpass Section, New Jersey; New Jersey Collection.

Referred specimen: UC 21091.
Tansey *in* Branson, 1922, p. 192, pl. 48, figs. 20–22.

Devonian, Bailey Limestone (chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *R. formosa*=*Machaeraria formosa* (Hall, 1857)
Schmidt *in* Moore, 1965, p. 558.

Rhynchotrema inaequivalve (Castelnau, 1843)

See: *Trematospira*? *quadriplicata* S. A. Miller, 1875.

Rhynchotrema increbescens (Hall, 1847)

See: *Trematospira*? *quadriplicata* S. A. Miller, 1875.

Rhynchotrema kentuckiense Fenton and Fenton, 1922

Holotype: original designation UC 27445.

Fenton and Fenton, 1922, pp. 67–68, pl. 1, figs. 18–20.

Referred specimens: UC 27446, three specimens.
Fenton and Fenton, 1922, pp. 67–68, pl. 1, figs. 4, 5, 21, 22.

Ordovician, Black River Group.

Danville, Kentucky; Hall Collection.

Rhynchotrema kentuckiensis varians Fenton and Fenton, 1922

Holotype: original designation UC 27451.
Fenton and Fenton, 1922, pp. 68–69, pl. 1, figs. 1–3.

Ordovician, Kimmswick Limestone.

Near Batchtown, Illinois; collected by Univ. Chicago Calhoun County Expedition.

Rhynchotrema mercerense Fenton and Fenton, 1922

Holotype, not designated, to be selected from UC 27449.

Referred specimens: UC 27449, two specimens.
Fenton and Fenton, 1922, pp. 69–70, pl. 2, figs. 17–21.

Ordovician, Black River Group.

Mercer County, Kentucky; Gurley Collection.

Rhynchotrema minnesotense (Sardeson, 1891)

Referred specimens: UC 27443, ten specimens.
Fenton and Fenton, 1922, pp. 70–71, pl. 1, figs. 15–17.

Ordovician, Platteville Limestone.

Ellsworth, Wisconsin; Sardeson Collection.

Rhynchotrema missouriense Fenton and Fenton, 1922

Holotype, not designated, to be selected from UC 27452.

Referred specimens: UC 27452, two specimens.
Fenton and Fenton, 1922, pp. 73–74, pl. 2, figs. 22–26.

Ordovician, Decorah Shale.

Two and one-half miles west of Ste. Genevieve, Ste. Genevieve County, Missouri; collected by S. Weller.

Rhynchotrema wisconsinse Fenton and Fenton, 1922

Holotype: original designation UC 27444.
Fenton and Fenton, 1922, pp. 71–72, pl. 1, figs. 6–8.

Referred specimens: UC 6935, 29 specimens.
Fenton and Fenton, 1922, pp. 71–72.
Ordovician, Black River Group.
Ellsworth, Wisconsin; purchased from Sardeson.

Rhynchotrema uniplicatum Fenton and Fenton, 1922
Holotype, not designated, to be selected from UC 27450.

Referred specimens: UC 27450, three specimens.
Fenton and Fenton, 1922, pp. 74–75, pl. 2, figs. 10–13.
Ordovician, Kimmswick Limestone.
Near Sulphur Springs, Missouri; collected by S. Weller, 1896.

Rhynchotrema sp.
Referred specimen: P 28279.
Roy, 1941, pp. 101–102, text fig. 68.
Ordovician, Richmond.
Silliman's Fossil Mount, Frobisher Bay, Baffin Land; Roy Collection.

Rhynchotetra elongatum S. Weller, 1914
Holotype: original designation UC 8549.
S. Weller, 1914, pp. 209–210, pl. 28, figs. 9–12.
Branson, 1938a, pp. 48–49, pl. 5, figs. 1–3.
Mississippian, Pierson Limestone.
Near Springfield, Missouri; S. Weller Collection.

Rhynchotetra gibbosum (Greger, 1910)
Referred specimens: UC 9715, three specimens.
S. Weller, 1914, pp. 211–212, pl. 27, figs. 14, 15.
Mississippian, Burlington Limestone.
Marion County, Missouri; collected by E. C. Quereau.

Rhynchotetra missouriensis S. Weller, 1914
Holotype: UC 13962.
S. Weller, 1914, pp. 206, 210–211, pl. 28, figs. 1–5.

Referred specimen: UC 13965.
S. Weller, 1914, pp. 206, 210–211, text fig. 15, pl. 28, figs. 7, 8.
McLaren *in* Moore, 1965, p. 589, text figs. 468, 3e–h.
Mississippian, Burlington Limestone.

Missouri; UC 13962, Broadhead Collection; UC 13965, Sampson Collection.

Remarks: McLaren *in* Moore, 1965, p. 589, states *R. missouriensis* may belong to *Goniophoria* Yanishevskiy, 1910.

Rhynchotreta quadriplicata (S. A. Miller, 1875)

See: *Trematospira*? *quadriplicata* S. A. Miller, 1875.

Rhynchotreta transversa S. Weller, 1903

Holotype, not designated, to be selected from UC 10439.

Referred specimens: UC 10439, three specimens.
S. Weller, 1903, p. 286, pl. 29, figs. 32–35.

Devonian, Coeyman's Limestone.

S. Weller, 1903 locality 15C, near Hainesville, New Jersey; New Jersey Collection.

Rhytiophora blairi (S. A. Miller, 1891)

See: *Productus blairi* S. A. Miller, 1891

Rhytiophoria calhounensis (Moore, 1928)

See: *Productus calhounensis* Moore, 1928

Rotaia subtrigona (Meek and Worthen, 1860)

See: *Camarophoria subtrigona* (Meek and Worthen, 1860).
Tetracamera subtrigona (Meek and Worthen, 1860).

Rowleyella fabulites (Rowley, 1900)

Referred specimens: UC 14279, two specimens.
S. Weller, 1914, pp. 463–464, pl. 82, figs. 64–69.

=*Camarospira fabulites* (Rowley, 1900)
Boucot, Johnson and Staton *in* Moore, 1965, p. 658.

Mississippian, Burlington White Chert.

Louisiana, Missouri; Gurley Collection.

Rugosochonetes burlingtonensis (S. Weller, 1901)

See: *Chonetes burlingtonensis* S. Weller, 1901.

Rugosochonetes chesterensis (S. Weller, 1914)

See: *Chonetes chesterensis* S. Weller, 1914.

Scenidium anthonensis Sardeson, 1892

Referred specimens: UC 37873, two specimens.
S. Weller, 1903, p. 157, pl. 10, figs. 5–7.

Ordovician, Trenton Limestone.

S. Weller, 1903 locality 174A[4], Jacksonburg, New Jersey; New Jersey Collection.

Remarks: *S. anthonensis*=*Skenidioides anthonensis* (Sardeson, 1892) Schuchert and Cooper, 1932, pp. 71–72.

Scenidium pyramidale (Hall, 1852)

Referred specimen: UC 11900.
Hall and Clarke, 1892a, p. 242, pl. 7A, figs. 40–42.

Silurian, Niagaran.

Lockport, New York; Hall Collection.

Remarks: *S. pyramidale*=*Skenidioides pyramidalis* (Hall, 1852) Schuchert and Cooper, 1932, pp. 71–72.

Schellwienella alternata S. Weller, 1914

Holotype: original designation UC 13355, a pedicle valve.
S. Weller, 1914, pp. 66–67, pl. 4, fig. 6.

Mississippian, Burlington Limestone.

Burlington, Iowa; Hall Collection.

Schellwienella burlingtonensis S. Weller, 1914

Holotype, not designated, to be selected from UC 13354.

Referred specimens: UC 13354, a pedicle and a brachial valve.
S. Weller, 1914, pp. 67–68, pl. 4, figs. 1, 2.

Mississippian, Burlington Limestone.

Henderson County, Illinois; Hall Collection.

Schellwienella chouteauensis S. Weller, 1914

Holotype, not designated, to be selected from UC 9856.

Referred specimens: UC 9856, 13 specimens.
S. Weller, 1914, p. 64, pl. 7, figs. 6–8.
Branson, 1938a, pp. 27–28, pl. 1, figs. 14–17.

Mississippian, Chouteau Limestone.

Pettis County, Missouri; Sampson Collection.

Schellwienella crenulicostata S. Weller, 1914
Referred specimen: UC 14499, a pedicle valve.
S. Weller, 1914, pp. 63–64, pl. 3, fig. 18.
Mississippian, Kinderhook Bed no. 5.
Burlington, Iowa; collected by S. Weller, 1902.

Schellwienella inaequalia (Hall, 1858)
Referred specimen: UC 14754, a pedicle valve.
S. Weller, 1914, pp. 61–62, pl. 3, fig. 16.
Mississippian, Kinderhook Bed no. 5.
Burlington, Iowa; collected by S. Weller, 1902.

Referred specimen: UC 14755.
S. Weller, 1914, pp. 61–62, pl. 3, fig. 15.
Mississippian, Kinderhook Bed no. 5.
Burlington, Iowa; Hall Collection.
See also: *Orthothetes inaequalis* (Hall, 1858).

Schellwienella inflata (White and Whitfield, 1862)
Referred specimen: UC 14757 (not UC 14759), a pedicle valve.
S. Weller, 1914, pp. 59–61, pl. 83, fig. 11.
Mississippian, Kinderhook Bed no. 7.
Burlington, Iowa; collected by S. Weller, 1902.

Schellwienella planumbona S. Weller, 1914
Holotype, not designated, to be selected from UC 14756 and UC 6671.

Referred specimens: UC 14756, three specimens.
S. Weller, 1914, pp. 65–66, pl. 3, figs. 19–21.
Mississippian, Kinderhook Bed no. 6.
Burlington, Iowa; collected by S. Weller, 1902.

Referred specimen: UC 6671.
See: *Orthothetes* sp.

Schellwienella ? sp.
Referred specimen: UC 32110, a brachial valve.
Moore, 1928, pl. 13, fig. 9.
Mississippian, Chouteau Limestone Bed no. 3.
One-half mile above Snake Den on Little Fabius River, near Newark, Knox County, Missouri; Moore Collection.

Schizocrania filosa (Hall, 1847)
Referred specimens: UC 202, three specimens.
Hall and Whitfield, 1875b, pp. 73–74, pl. 1, figs. 12–15.
Hall and Clarke, 1892a, pp. 143–144, pl. 4G, figs. 22, 25–28.
Rowell *in* Moore, 1965, p. 283, text fig. 177, 2b.
Ordovician, Cincinnatian Series.
Cincinnati, Ohio; James Collection.

Referred specimen: UC 10295, a brachial valve.
S. Weller, 1903, p. 146, pl. 9, fig. 4.
Ordovician, Trenton Limestone.
S. Weller, 1903 locality 174a, Jacksonburg, New Jersey; New Jersey Collection.

Schizocrania superincreta Barrett, 1878
Referred specimen: UC 10467, a single valve.
S. Weller, 1903, pp. 323–324, pl. 41, fig. 4.
Devonian, Lower Oriskany Formation.
S. Weller, 1903 locality 53A, Peter's Valley, New Jersey; New Jersey Collection.

Schizophoria bisinuata S. Weller, 1903
Holotype, not designated, to be selected from UC 10452.

Referred specimens: UC 10452, three single valves.
S. Weller, 1903, pp. 278–279, pl. 31, figs. 12–14.
Devonian, Coeyman's Limestone.
S. Weller, 1903 locality 109A, Flatbrookville, New Jersey; New Jersey Collection.

Schizophoria chouteauensis S. Weller, 1914
Holotype, not designated, to be selected from UC 9689 and UC 14226.

Referred specimens: UC 9689, seven specimens.
S. Weller, 1914, pp. 163–164, pl. 23, figs. 12–16.
Branson, 1938a, p. 44, pl. 3, fig. 15.
Mississippian, Chouteau Limestone.
Pettis County, Missouri; Sampson Collection.

Referred specimens: UC 14226, two specimens.
S. Weller, 1914, pp. 163–164, pl. 23, figs. 8–11.
Branson, 1938a, p. 44.

Mississippian, Chouteau Limestone.
Providence, Missouri; Broadhead Collection.

Referred specimens: UC 8572, two specimens.
S. Weller, 1914, pp. 163–164, pl. 23, figs. 17–19.
Mississippian, Chouteau Limestone.
Near Springfield, Greene County, Missouri; S. Weller Collection.

Schizophoria impressa (Hall, 1843)
See: *Orthis* (*Schizophoria*) *impressa* Hall, 1843.

Schizophoria iowensis Fenton and Fenton, 1924
Referred specimens: UC 25246, three single valves.
Fenton and Fenton, 1924, p. 85.
Devonian, Hackberry Stage, *Spirifer* Zone.
Clay Pit, Rockford, Iowa; Fenton Collection.

Schizophoria meeki Fenton and Fenton, 1928
Holotype: original designation UC 25993, a single valve.
Fenton and Fenton, 1928, pp. 160–161, pl. 11, fig. 1.
Devonian, Cedar Valley Limestone, Littleton Substage in drift.
Near Waverly, Iowa; Fenton Collection.

Referred specimen: UC 7465.
Fenton and Fenton, 1928, pp. 160–161, pl. 11, fig. 2.
Devonian, Cedar Valley Limestone, Littleton Substage.
Johnson County, Iowa; Gurley Collection.

Schizophoria poststriatula S. Weller, 1914
"Cotypes": UC 4693.
See: *Schizophoria swallovi* (Hall, 1858).

Schizophoria poststriatula? S. Weller, 1914
Referred specimens: UC 8553, four specimens.
S. Weller, 1914, pp. 165–167, pl. 22, figs. 15–17.
Mississippian, Pierson Limestone.
Near Springfield, Missouri; S. Weller Collection.

Schizophoria resupinoides (Cox, 1857)
Referred specimen: UC 16100, a pedicle valve.

Mather, 1915, pp. 145–146, pl. 8, fig. 6.
Pennsylvanian, Brentwood Limestone.
Mather, 1915 station 134, near Fayetteville, Arkansas; Mather, donor.

Referred specimen: UC 16102, a pedicle valve.
Mather, 1915, pp. 145–146, pl. 8, figs. 7–7b.
Pennsylvanian, Brentwood Limestone.
Mather, 1915 station 135, near Fayetteville, Arkansas; Mather, donor.

Schizophoria sedaliensis S. Weller, 1914
Holotype, not designated, to be selected from UC 14225.

Referred specimens: UC 14225, three specimens.
S. Weller, 1914, pp. 164–165, pl. 21, figs. 28–32.
Branson, 1938a, pp. 44–45.
Mississippian, Upper Chouteau Limestone.
Sedalia, Missouri; Sampson Collection.

Schizophoria striatula (Schlotheim, 1813)
See: *Orthis* (*Schizophoria*) *impressa* Hall, 1843.

Schizophoria subelliptica (White and Whitfield, 1862)
Referred specimens: UC 14227, two pedicle valves.
S. Weller, 1914, pp. 162–163, pl. 23, figs. 1, 2.
Mississippian, Kinderhook Oolite Bed no. 6.
Burlington, Iowa; collected by S. Weller, 1902.

Schizophoria swallovi (Hall, 1858)
Referred specimens: UC 4693, four specimens.
S. Weller, 1909, pp. 296–297, pl. 12, figs. 6, 7.
= "cotypes" of *Schizophoria poststriatula* S. Weller, 1914
S. Weller, 1914, pp. 165–167, pl. 22, figs. 12–14.
Mississippian, Fern Glen Formation.
Near Kimmswick, Missouri; collected by S. Weller, 1896.

Referred specimens: UC 4471A, two specimens.
S. Weller, 1899, pp. 13–15, pl. 4, fig. 7.
Mississippian, Northview Sandstone.

Northview, Missouri; collected by S. Weller, 1896.

Referred specimens: UC 7861, three specimens.
S. Weller, 1914, pp. 167–168, pl. 22, figs. 2, 3.
Mississippian, Burlington Limestone.
Henderson County, Illinois; Gurley Collection.

Referred specimen: UC 7862.
S. Weller, 1914, pp. 167–168, pl. 22, figs. 4, 5.
Mississippian, Burlington Limestone.
Burlington, Iowa; Gurley Collection.

Referred specimen: UC 7916.
S. Weller, 1914, pp. 167–168, pl. 22, fig. 1.
Mississippian, Burlington Limestone.
Springfield, Missouri; S. Weller Collection.

Referred specimens: UC 14223, two specimens.
S. Weller, 1914, pp. 167–188, pl. 22, fig. 6.
Mississippian, Burlington Limestone (chert).
Sedalia, Missouri; Sampson Collection.

Schizotreta tenuilamellata (Hall, 1852)

See: *Orbiculoidea* (*Schizotreta*?) *tenuilamellata* (Hall, 1852).

Schuchertella chemungensis pectinacea Hall, 1867

Referred specimens: UC 23879, 12 specimens.
Branson and Williams *in* Branson, 1922, pp. 137–138, pl. 32, figs. 6, 7.
Devonian, Grand Tower Limestone.
Little Saline Creek in Ste. Genevieve County, Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Schuchertella costatula (Hall and Clarke, 1892)

Holotype: UC 14498A.

See: *Derbya* (?) *costatula* Hall and Clarke, 1892.

Referred specimen: UC 14498B, a pedicle valve.
S. Weller, 1914, pp. 57–58, pl. 2, figs. 21, 22.
Mississippian, Chester Group.
Crittenden County, Kentucky; Hall Collection.

Schuchertella deckerensis (S. Weller, 1903)
See: *Orthothetes deckerensis* S. Weller, 1903.

Schuchertella fernglenensis S. Weller, 1914
See: *Orthothetes rubra* S. Weller, 1909; UC 13910.

Schuchertella interstriata (Hall, 1852)
See: *Orthothetes interstriatus* (Hall, 1852).

Schuchertella lens (White, 1862)
Referred specimens: UC 6693, 17 specimens.
S. Weller, 1914, pp. 55–56, pl. 3, figs. 1–4.
Mississippian, Louisiana Limestone.
Louisiana, Missouri; Gurley Collection.

Referred specimens: UC 13051, six specimens.
S. Weller, 1914, pp. 55–56, pl. 3, figs. 6–8.
Mississippian, Louisiana Limestone (catalogue).
Hall locality 389, "A collection of Sub-carboniferous fossils made by Rowley 1883–1885 also 1888. Lower Kinderhook, Pike County, Missouri." Hall Collection.

Referred specimen: UC 14258, a pedicle valve.
S. Weller, 1914, pp. 55–56, pl. 3, fig. 9.
Mississippian, Louisiana Limestone.
Calhoun County, Illinois; Hall Collection.
See also: *Orthothetes lens* (White, 1862).

Schuchertella perconcinna Grubbs, 1939
Holotype: original designation UC 46052.
Grubbs, 1939, p. 557, pl. 62, figs. 14, 19.

Referred specimens: UC 46053, six specimens.
Grubbs, 1939, p. 557, pl. 62, figs. 18, 20.
Silurian, Niagaran Dolomite.
Federal Stone Co. Quarry, near Chicago, Illinois; Grubbs Collection.

Schuchertella prava (Hall, 1858)
See: *Orthothetes prava* (Hall, 1858).

Schuchertella rubra (S. Weller, 1909)
See: *Orthothetes rubra* S. Weller, 1909.

Schuchertella sinuata (Hall and Clarke, 1892)
See: *Orthothetes deformis* var. *sinuata* Hall and Clarke, 1892.

Schuchertella sp.
Referred specimen: UC 27470.
Tansey *in* Branson, 1922, p. 236, pl. 62, fig. 11.
Devonian, Little Saline Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.
See also: *Orthothetes chemungensis* (Conrad, 1842).

Schuchertella? sp.
Referred specimen: UC 32946.
Fisher, 1925, pl. 4, fig. 5.
Silurian, Niagaran.
Joliet, Illinois; S. Weller Collection.

Sedenticellula hamburgensis (S. Weller, 1910)
See: *Camarophoria hamburgensis* S. Weller, 1910.

Selenella pediculus (Rowley, 1901)
Referred specimens: UC 6731, 92 specimens.
S. Weller, 1914, pp. 244–245, pl. 30, figs. 34–39.
Mississippian, Louisiana Limestone.
Louisiana, Missouri; collected by S. Weller, 1896.

Semicostella oklahomensis (Snider, 1915)
See: *Avonia oklahomensis* Snider, 1915.

Seminula argentea (Shepard, 1838)
See: *Seminula subtilita* (Hall, 1852).
Terebratula subtilita Hall, 1852.

Seminula dawsoni Hall and Clarke, 1895
Holotype, not designated, to be selected from UC 12374.
Referred specimens: UC 12374, two specimens.

Hall and Clarke, 1895a, p. 364, pl. 47, figs. 32–34.
Hall and Clarke, 1895b, p. 359, pl. 9, figs. 14–16.
Hall and Clarke, 1895c, p. 359, pl. 9, figs. 14–16.

Pennsylvanian.

Windsor, Nova Scotia; Hall Collection.

Remarks: *Seminula* Hall and Clarke, 1893=*Composita* Brown, 1849 Buckman, 1906, pp. 324–326.

Seminula subquadrata (Hall, 1858)

Referred specimen: UC 12371.
Hall and Clarke, 1893, pp. 95–96.
Hall and Clarke, 1895a, pl. 47, fig. 17.
Hall and Clarke, 1895b, pl. 35, fig. 13.

=*Composita trinuclea* (Hall, 1856)
S. Weller, 1914, p. 486.

Mississippian, Chester Group.

Hall locality a/360, "Spurgeons Hill, Herzer Collection."

Published locality, Crittenden County, Kentucky; Hall Collection.

Referred specimen: UC 12372.
Hall and Clarke, 1893, pp. 95–96.
Hall and Clarke, 1895a, pl. 47, figs. 8, 9.

=*Composita trinuclea* (Hall, 1856)
S. Weller, 1914, p. 486.

Mississippian, Salem Limestone.

Hall locality 362, "Washington County, Indiana, Herzer Collection."

Published locality, Spergen Hill, Indiana; Hall Collection.

Referred specimen: UC 12938, a brachial valve.
Hall and Clarke, 1893, pp. 95–96.
Hall and Clarke, 1895a, pl. 47, figs. 15, 16.
Hall and Clarke, 1895b, pl. 35, fig. 15.

=*Composita trinuclea* (Hall, 1856)
S. Weller, 1914, p. 486.

Mississippian, Pella Beds.

Pella, Iowa; Hall Collection.

Seminula subtilita (Hall, 1852)

Referred specimen: UC 12373.

Hall and Clarke, 1895a, pl. 47, fig. 19.

=*Seminula argentea* (Shepard, 1838)
S. Weller, 1898, pp. 560–562.

Pennsylvanian.

Cooper Creek, Iowa; Hall Collection.

Referred specimens: UC 12939, two specimens.
Hall and Clarke, 1895a, pl. 47, figs. 22–30.

=*Seminula argentea* (Shepard, 1838)
S. Weller, 1898, pp. 560–562.

Pennsylvanian.

Winterset, Iowa; Hall Collection.

Remarks: *Seminula* Hall and Clarke, 1893=*Composita* Brown, 1849
Buckman, 1906, pp. 324–326.

Seminula trinuclea (Hall, 1856)

Referred specimen: UC 12368.
Hall and Clarke, 1893, pp. 94–96.
Hall and Clarke, 1895a, pl. 47, figs. 5, 6.

=*Composita trinuclea* (Hall, 1856)
S. Weller, 1914, p. 486.

Mississippian, Salem Limestone.

Bloomington, Indiana; Hall Collection.

Referred specimen: UC 12369.
Hall and Clarke, 1893, pp. 94–96.
Hall and Clarke, 1894, pl. 35, fig. 12.
Hall and Clarke, 1895a, pl. 47, figs. 10, 11.

=*Composita trinuclea* (Hall, 1856)
S. Weller, 1914, p. 486.

Mississippian, Salem Limestone.

Spergen Hill, Indiana; Hall Collection.

Referred specimen: UC 12370.
Hall and Clarke, 1893, pp. 94–96.
Hall and Clarke, 1895b, pl. 35, fig. 11.
Hall and Clarke, 1895a, pl. 47, fig. 12.

=*Composita trinuclea* (Hall, 1856)
S. Weller, 1914, p. 486.

Mississippian, Salem Limestone.

Hall locality 362b, "Harrison County, Indiana. Herzer Collection"; Hall Collection.

Setigerites altonensis (Norwood and Pratten, 1855)

See: *Productus altonensis* Norwood and Pratten, 1855

Setigerites scitulus (Meek and Worthen, 1860)

See: *Productus scitulus* Meek and Worthen, 1860.

Setigerites setiger (Hall, 1858)

See: *Productus newtonensis* Moore, 1928.
Productus setigerus Hall, 1858.

Setigerites setigerus (Hall, 1858)

See: *Productus setigerus* Hall, 1858.

Shumardella missouriensis (Shumard, 1855)

Referred specimens: UC 9667, eight specimens.

S. Weller, 1910, pp. 512–513, text figs. 14a–i.

S. Weller, 1914, pp. 222–224, text figs. 18a–i, pl. 25, figs. 43–47.

Branson, 1938a, p. 50.

Cooper *in* Shimer and Shrock, 1944, p. 313, pl. 119, figs. 27–30.

Schmidt *in* Moore, 1965, p. 576, text figs. 449, 1a–d.

Mississippian, Chouteau Limestone.

Chouteau Springs, Missouri; Sampson Collection.

Shumardella obsolens (Hall, 1860)

See: *Shumardella obsolescens* (Hall, 1860).

Shumardella obsolescens (Hall, 1860)

Referred specimens: UC 9668, ten specimens.

S. Weller, 1910, pp. 513–514, text figs. 15a–h.

=*Shumardella obsolens* (Hall, 1860) [nom. null. Carter, 1967, p. 303]

S. Weller, 1914, pp. 224–226, text figs. 19a–h, pl. 26, figs. 1–9.

Branson, 1938a, p. 50.

=*Shumardella obsolescens* S. Weller, 1910

Carter, 1967, pp. 301–303.

Mississippian, Chouteau Limestone.

Chouteau Springs, Missouri.

Shumardella obsolescens S. Weller, 1910

See: *Shumardella obsolescens* (Hall, 1860).

Sieberella roemeri Hall and Clarke, 1893

Holotype: UC 12456.

Hall and Clarke, 1893, p. 247.

Hall and Clarke, 1895a, pl. 72, fig. 6.

Hall and Clarke, 1895b, p. 370, pl. 13, fig. 4.

Hall and Clarke, 1895c, p. 370, pl. 13, fig. 4.

=*Gypidula roemeri* (Hall and Clarke, 1893)

Schuchert, 1897, p. 227.

=*Gypidula* (*Sieberella*) *roemeri* (Hall and Clarke, 1893)

Bassler, 1915, p. 572.

Silurian, Niagaran.

Hall locality 186, "Falls of the Ohio and ?Chanbstorm? Ind. (vicinity of) Prof. Hall, 1877."

Published locality, Perry County, Tennessee; Hall Collection.

Skenidioides anthonensis (Sardeson, 1892)

See: *Scenidium anthonensis* Sardeson, 1892.

Skenidioides pyramidalis (Hall, 1852)

See: *Scenidium pyramidale* (Hall, 1852).

Skenidioides (?) sp.

Referred specimen: P 28259.

Roy, 1941, pp. 86–87, text fig. 49.

Ordovician, Richmond.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; Roy Collection.

Sowerbyella sp.

Referred specimens: P 28272, ten specimens.

Roy, 1941, pp. 97–98, text figs. 62a–b.

Ordovician, Richmond.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; Roy Collection.

Sphenorthis niagarensis Grubbs, 1939
Holotype: original designation UC 46047.
Grubbs, 1939, pp. 554–555, pl. 62, figs. 9–11.
Silurian, Niagaran Dolomite.
Federal Stone Co. Quarry, near Chicago, Illinois; Grubbs Collection.

Spinocyrtia granulosa (Conrad, 1839)
See: *Spirifera granulifera* (Hall, 1843).

Spinocyrtia macbridei (Calvin, 1883)
See: *Spirifer macbridii* Calvin, 1883.

Spinulicosta arcuata (Hall, 1858)
See: *Productus arcuatus* Hall, 1858.

Spinulicosta concentrica (Hall, 1857)
See: *Productella concentrica* (Hall, 1857).

Spinulicosta spinulicosta (Hall, 1857)
See: *Productella spinulicosta* (Hall, 1857).

Spirifer arenosus (Conrad, 1839)
Referred specimens: UC 27501, two pedicle valves and a brachial valve.
Stewart *in* Branson 1922, pp. 245–246, pl. 65, figs. 6–8.
Devonian, Little Saline Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.
Remarks: *S. arenosus*=*Costispirifer arenosus* (Conrad, 1839) Cooper, 1942, p. 232.

Spirifer asper Hall, 1858
Referred specimen: UC 11979.
Hall and Clarke, 1893, p. 29.
Hall and Clarke, 1894, p. 757, pl. 28, fig. 9.
Hall and Clarke, 1895a, pl. 25, figs. 20, 21.
=*Eosyringothyris aspera* (Hall, 1858)
Stainbrook, 1943, pp. 432–443.
Devonian, Hamilton Group.

New Buffalo, Iowa; Hall Collection.

Spirifer audaculus (Conrad, 1842)

Referred specimens: UC 23987, nine specimens.
Tansey *in* Branson, 1922, p. 145, pl. 33, figs. 3–5.

Devonian, St. Laurent Limestone.

S. Weller, locality 14-8, three miles south of St. Marys, Missouri; collected by S. Weller.

Remarks: *S. audaculus=Brachyspirifer audaculus* (Conrad, 1842) Cooper *in* Shimer and Shrock, 1944, p. 323.

Spirifer bifurcatus Hall, 1856

Referred specimens: UC 7530, 16 specimens.
S. Weller, 1914, pp. 346–347, pl. 47, figs. 11–16.
Cooper *in* Shimer and Shrock, 1944, p. 325, pl. 124, figs. 10–13.

Mississippian, Salem Limestone.

Spergen Hill, Indiana; Gurley Collection.

See also: *Spirifer keokuk* var.? Hall, 1858.

Spirifer biplicatus Hall, 1858

Referred specimens: UC 5931, three single valves.
S. Weller, 1900a, p. 77, pl. 2, figs. 6, 7.
S. Weller, 1914, pp. 320–321, pl. 39, figs. 24–26.

Mississippian, Chonopectus Sandstone.

Burlington, Iowa; S. Weller Collection.

Spirifer biplicoides S. Weller, 1914

Holotype, not designated, to be selected from UC 14785 and UC 6660.

Referred specimen: UC 14785, a pedicle valve.
S. Weller, 1914, pp. 323–324, pl. 39, fig. 29.

Mississippian, Kinderhook Bed no. 5.

Burlington, Iowa; collected by S. Weller, 1902.

Referred specimen: UC 6660.

See: *Spirifer centronatus* Winchell, 1865.

Spirifer buehleri Moore, 1928

Holotype, not designated, to be selected from UC 32121.

Referred specimens: UC 32121, five specimens.
Moore, 1928, p. 274, pl. 12, figs. 17–19, 23.
Mississippian, Boone Formation, Reeds Spring Limestone Member.
One-fourth mile below Grand Falls, Shoal Creek, Newton County, Missouri; Moore Collection.

Spirifer calvini S. Weller, 1914
Referred specimen: UC 13542, a pedicle valve.
S. Weller, 1914, pp. 368–369, pl. 54, fig. 5.
Mississippian, Kinderhook.
Tama County, Iowa; T. E. Savage, donor.
Remarks: UC 13542 is one of the specimens originally figured by S. Weller, 1914. The other "cotypes" UC 13540 are missing.

Spirifer centronatus Winchell, 1865
Referred specimens: UC 6660, two specimens.
S. Weller, 1901, pp. 163–164, pl. 14, figs. 3, 4.
="cotypes" of *Spirifer biplicoides* S. Weller, 1914
S. Weller, 1914, pp. 323–324, pl. 39, figs. 27, 28.
Mississippian, Kinderhook Bed no. 5.
Burlington, Iowa; S. Weller Collection.

Spirifer chouteauensis, S. Weller, 1909
Referred specimen: UC 13536.
S. Weller, 1909, p. 306, pl. 13, fig. 11.
=*Brachythyris chouteauensis* (S. Weller, 1909)
S. Weller, 1914, pp. 373–374, pl. 57, fig. 11.
Carter, 1967, p. 394.
Mississippian, Fern Glen Formation.
Fern Glen, Missouri; S. Weller Collection.

Spirifer crawfordsvillensis S. Weller, 1914
Holotype: original designation UC 13528.
S. Weller, 1914, pp. 338–339, pl. 47, figs. 1–5.
Mississippian, Crawfordsville Shale.
Crawfordsville, Indiana; Gurley Collection.

Spirifer cyclopterus Hall, 1857
Referred specimen: UC 21075, a single valve.
Tansey *in* Branson, 1922, p. 200, pl. 51, fig. 27.

Referred specimens: UC 21100 [not UC 21000], ten specimens.
Tansey *in* Branson, 1922, p. 200, pl. 51, figs. 12–26.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Spirifer duodecicostata McCoy, 1847

Referred specimen: UC 17959.
Dana, 1849, p. 684, pl. 2, figs. 1a–b.

Pennsylvanian, sandstone below the coal.

District of Illawarra, New South Wales, Australia; Hall Collection.

Spirifer eudora (Hall, 1861)

Referred specimens: UC 32944, four specimens.
Fisher, 1925, pl. 4, fig. 8.

Silurian, Niagaran.

Joliet, Illinois; Van Horne Collection.

Spirifer fayettevillensis Snider, 1915

Holotype, not designated, to be selected from UC 16205.

Referred specimens: UC 16205, three specimens.
Snider, 1915, pp. 89–90, pl. 5, figs. 1, 2.

Mississippian, Fayetteville Shale.

Snider, 1915 locality F8, Pryor Quadrangle, Oklahoma; Snider, donor.

Spirifer fernglenensis S. Weller, 1909

Holotype, not designated, to be selected from UC 13538.

Referred specimens: UC 13538, seven specimens.
S. Weller, 1909, p. 306, pl. 13, figs. 9, 10.

=*Brachythyris fernglenensis* (S. Weller, 1909)
S. Weller, 1914, pp. 372–373, pl. 52, figs. 5, 6.

Mississippian, Fern Glen Formation.

Fern Glen, Missouri; S. Weller Collection.

Spirifer floydensis S. Weller, 1914

Holotype, not designated, to be selected from UC 13525 and UC 13526.

Referred specimens: UC 13525.
S. Weller, 1914, pp. 351–352, pl. 49, figs. 17–19.
Mississippian, Knobstone Formation.
Floyd County, Indiana; Gurley Collection.

Referred specimen: UC 13526.
S. Weller, 1914, pp. 351–352, pl. 49, figs. 15, 16.
Mississippian, Knobstone Formation.
Indiana; Gurley Collection.

Spirifer forbesi Norwood and Pratten, 1855
Referred specimen: UC 5654, a brachial valve.
S. Weller, 1914, pp. 331–333, pl. 83, fig. 1.
Mississippian, Burlington Limestone.
S. Weller, 1914 locality B3, Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 13531, a brachial valve.
S. Weller, 1914, pp. 331–333, pl. 83, fig. 2.
Mississippian, Burlington Limestone.
Burlington, Iowa; Tiffany Collection.

Referred specimen: UC 13549, a pedicle valve [right wing broken since illustrated].
S. Weller, 1914, pp. 331–333, pl. 43, fig. 16.
Mississippian, Burlington Limestone.
Pettis County, Missouri; Sampson Collection.

Spirifer goreii Mather, 1915
= *Anthracospirifer goreii* (Mather, 1915)
Hoare, 1966, personal communication.
Holotype: original designation UC 16144A.
Mather, 1915, pp. 186–187, pl. 12, figs. 11, 11a.

Referred specimen: UC 16144B.
Mather, 1915, pp. 186–187, pl. 12, figs. 10, 10a.
Pennsylvanian, Morrow Formation.
Mather, 1915 station 304, near Gore, Oklahoma; Mather, donor.

Spirifer granulosus (Conrad, 1839)
See: *Spirifera granulifera* (Hall, 1843).

Spirifer gregeri S. Weller, 1914

Holotype, not designated, to be selected from UC 13552 and UC 13578.

Referred specimens: UC 13552, four specimens.
S. Weller, 1914, p. 359, pl. 55, figs. 1–3.

Mississippian, Top of Chouteau Limestone.

Sedalia, Missouri; Sampson Collection.

Referred specimens: UC 13578, a pedicle valve.
S. Weller, 1914, p. 359, pl. 55, fig. 4.
Branson, 1938a, p. 59, pl. 7, figs. 15, 16.

Mississippian, Upper Chouteau Limestone.

Head of Middle River, Callaway County, Missouri; Greger Collection.

Spirifer grimesi Hall, 1858

Referred specimen: UC 331, a pedicle valve.
S. Weller, 1914, pp. 361–362, pl. 52, fig. 4.

Mississippian, Burlington Limestone.

Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 10762, a pedicle valve.
S. Weller, 1914, pp. 361–362, pl. 53, fig. 1.

Mississippian, Burlington Limestone.

S. Weller, 1914 locality zone VI 3, near Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 12942.
S. Weller, 1914, pp. 361–362, pl. 51, figs. 1, 2, pl. 52, figs. 1–3.
S. Weller, 1926, pl. 493.
Cooper *in* Shimer and Shrock, 1944, p. 325, pl. 124, figs. 25–27.

Mississippian, Burlington Limestone.

Springfield, Missouri; Hall Collection.

Referred specimen: UC 13537.
S. Weller, 1909, pp. 304–305, pl. 13, figs. 1, 2.
= Holotype of *Spirifer rowleyi* S. Weller, 1914
S. Weller, 1914, pp. 360–361, pl. 54, figs. 1–4.

Mississippian, Fern Glen Formation.

S. Weller, 1909 locality 22, Fern Glen, Missouri; collected by S. Weller, 1908.

Referred specimen: UC 14786, a pedicle valve.
S. Weller, 1914, pp. 361–362, pl. 53, fig. 2.
Mississippian, Burlington Limestone.
Near Springfield, Missouri; S. Weller Collection.

Spirifer cf. **S. hirtus** White and Whitfield, 1862
Referred specimen: UC 12214, a single valve.
Hall and Clarke, 1895a, pl. 84, figs. 36, 37.
= *Reticularia cooperensis* (Swallow, 1860)
S. Weller, 1914, pp. 428–429.
Mississippian, Waverly Group, Cuyahoga Shale (nodular layer).
Hall locality 396, "Lodi, Medina County, Ohio. July 1–10, 1891, W. F. Cooper, collector."
Published locality, Richfield, Ohio; Hall Collection.

Spirifer incertus Hall, 1858
Referred specimen: UC 8620.
S. Weller, 1914, pp. 335–336, pl. 41, figs. 7–11.
Mississippian, Burlington Limestone.
Burlington, Iowa; Gurley Collection.

Referred specimen: UC 13529, a pedicle valve.
S. Weller, 1914, pp. 335–336, pl. 41, fig. 6.
Mississippian, Burlington Limestone.
Burlington, Iowa; Tiffany Collection.

Spirifer increbescens Hall, 1858
Referred specimen: UC 21358.
S. Weller, 1920, pp. 374–375, pl. 11, fig. 10.
= *Spirifer keokuk* Hall, 1858
Cooper *in* Shimer and Shrock, 1944, p. 325, pl. 124, figs. 14–17.
Mississippian, Clore Formation.
S. Weller, 1920 locality 16-5, two miles northeast of Waltersburg, Brownfield Quadrangle, Illinois; collected by S. Weller, 1916.

Remarks: Cooper in plate 124 figured *S. increbescens* UC 21358 as *S. keokuk* UC 13519.

Spirifer indianensis S. Weller, 1914
Holotype, not designated, to be selected from UC 7493.

Referred specimens: UC 7493, 11 specimens.
S. Weller, 1914, pp. 352–353, pl. 50, figs. 6–12.
Mississippian, Harrodsburg Limestone.
Spergen Hill, Indiana; Gurley Collection.

Spirifer insculptus Rowley, 1900

Referred specimen: UC 13551.
S. Weller, 1914, pp. 324–326, pl. 40, figs. 30–34.
Mississippian, Base of Burlington Limestone.
Fern Glen, Missouri; collected by S. Weller, 1906.

Spirifer jeffersonensis S. Weller, 1906

Holotype, not designated, to be selected from UC 11350.

Referred specimens: UC 11350, six specimens.
S. Weller, 1906, pp. 444–445, pl. 6, figs. 18–22.
S. Weller, 1914, pp. 369–370, pl. 42, figs. 17–21.
Branson, 1938a, p. 138, pl. 16, fig. 22.
Mississippian, Glen Park Limestone.
S. Weller 1906 locality 11, Glen Park, Missouri; collected by S. Weller, 1904.

Spirifer keokuk Hall, 1858

Referred specimen: UC 4961, three single valves.
S. Weller, 1897, pp. 257–258, pl. 19, figs. 10–12.
=*Spirifer pellaensis* S. Weller, 1914
S. Weller, 1914, p. 340.
Mississippian, Batesville Sandstone.
S. Weller locality 2A, Batesville, Arkansas; collected by S. Weller, 1896.

Referred specimens: UC 5626, five specimens.
S. Weller, 1914, pp. 350–351, pl. 49, figs. 10–14.
Mississippian, Keokuk Limestone.
Keokuk, Iowa; collected by E. C. Quereau, 1894.

Referred specimens: UC 13519, three specimens.
S. Weller, 1914, pp. 350–351, pl. 49, figs. 1–9.
=*Spirifer increbescens* Hall, 1858
Cooper *in* Shimer and Shrock, 1944, p. 325, pl. 124, figs. 6–9.
Mississippian, Keokuk Limestone.

Keokuk, Iowa; Hall Collection.

Remarks: Cooper in plate 124 figured *S. keokuk* UC 13519 as *S. increbescens* UC 21358.

Spirifer keokuk var.? Hall, 1858

Referred specimen: UC 13520.
Hall and Clarke, 1893, p. 27.
Hall and Clarke, 1895a, pl. 37, figs. 13–15.

=*Spirifer bifurcatus* Hall, 1858
S. Weller, 1914, pp. 346–347.

Mississippian, St. Louis Group.

New Providence, Indiana; Hall Collection.

Spirifer lateralis Hall, 1858

Holotype: UC 8619.
Hall, 1858, p. 661, pl. 23, figs. 7a–7c.
S. Weller, 1914, pp. 330–331, pl. 43, figs. 11–15.
Cooper *in* Shimer and Shrock, 1944, p. 325, pl. 124, figs. 1–5.

Mississippian, Warsaw Limestone.

Clifton, Madison County, Illinois; Gurley Collection.

Spirifer latior Swallow, 1863

Referred specimen: UC 6707.
S. Weller, 1914, pp. 316–317, pl. 38, figs. 9–13.

=*Cyrtospirifer*? *latior* (Swallow, 1863)
Sanders *in* Easton, 1958, pp. 55–57.

Mississippian, Chouteau Limestone.

Chouteau Springs, Cooper County, Missouri; Gurley Collection.

Spirifer legrandensis S. Weller, 1914

Holotype, not designated, to be selected from UC 10720.

Referred specimens: UC 10720, two specimens.
S. Weller, 1914, pp. 326–327, pl. 40, figs. 24–29.

Mississippian, Kinderhook.

Le Grand, Iowa; collected by S. Weller, 1902.

Spirifer littoni Swallow, 1860

Referred specimens: UC 14775.

S. Weller, 1914, pp. 348–349, pl. 50, figs. 1–5.
Mississippian, St. Louis Limestone.
Alton, Illinois; Van Horne Collection.

Spirifer logani Hall, 1858
Referred specimen: UC 6579.
S. Weller, 1914, pp. 363–364, pl. 56, figs. 1–3, pl. 57, figs. 1–3.
Mississppian, Keokuk Limestone.
Keokuk, Iowa; Gurley Collection.

Spirifer louisianensis Rowley, 1900
Referred specimens: UC 5632, seven specimens.
S. Weller, 1914, pp. 322–323, pl. 40, figs. 1–13.
Mississippian, Chouteau Limestone.
Green County, Missouri; S. Weller Collection.

Referred specimens: UC 14153, four specimens.
S. Weller, 1914, pp. 322–323, pl. 40, figs. 14, 15.
Mississippian, Upper Chouteau Limestone.
Head of Middle River, Callaway County, Missouri; Greger Collection.

Spirifer macbridii Calvin, 1883
Referred specimen: UC 11978, a brachial valve.
Hall and Clarke, 1895a, pl. 25, fig. 14.
= *Platyrachella macbridei* (Calvin, 1883)
Fenton and Fenton, 1924, pp. 159–161.
Devonian, Hackberry Stage.
Rockford, Iowa; Hall Collection.
Remarks: *S. macbridii*=*Spinocyrtia macbridei* (Calvin, 1883)
Pitrat *in* Moore, 1965, p. 689.

Spirifer sp. compare **Spirifer macbridii** Calvin, 1883
Referred specimen: UC 11977.
Hall and Clarke, 1893, p. 31.
Hall and Clarke, 1895a, pl. 25, figs. 17–19.
Devonian, Hamilton.
Rock Island, Illinois; Hall Collection.

Spirifer macropleurus (Conrad, 1840)

Referred specimen: UC 10440, a single valve.
S. Weller, 1903, pp. 288 and 313, pl. 30, fig. 1.

Devonian, Coeyman's Limestone.

S. Weller, 1903 locality 109A, Flatbrookville, New Jersey; New Jersey Collection.

Remarks: *S. macropleurus=Eospirifer macropleurus* (Conrad, 1840) Cooper *in* Shimer and Shrock, 1944, pp. 319–321.

S. macropleurus=Macropleura macropleura (Conrad, 1840) Boucot, 1963, p. 691.

Spirifer maplensis S. Weller, 1905

Holotype, not designated, to be selected from UC 10508.

Referred specimens: UC 10508, 14 specimens.
S. Weller, 1905b, p. 628.
S. Weller, 1914, pp. 357–358, pl. 51, figs. 3–8.

Mississippian, English River Gritstone.

Maple Mill, Washington County, Iowa; collected by S. Weller, 1902.

Spirifer marcyi Hall, 1857

Referred specimen: UC 12361.
Hall, 1867, pp. 226–227, pl. 37, fig. 19.
Hall, 1883a, pl. 52, figs. 10, 11.
Hall and Clarke, 1895a, pl. 22, figs. 10, 11.

Devonian, Hamilton Group.

Genesee County, New York; Hall Collection.

Spirifer marionensis Shumard, 1855

Referred specimen: UC 5957, a brachial valve.
S. Weller, 1899, pp. 17–18, pl. 4, fig. 12.

=*Spirifer osagensis* Swallow, 1860
S. Weller, 1914, pp. 314–316, pl. 37, fig. 21.

Mississippian, Northview Sandstone.

S. Weller, 1899 locality 1-A, Northview, Missouri; collected by S. Weller, 1898.

Referred specimens: UC 6674, a pedicle and brachial valve.
S. Weller, 1901, pp. 188–189, pl. 16, figs. 16, 17.

= "cotypes" of *Spirifer platynotus* S. Weller, 1914
S. Weller, 1914, pp. 317–319, pl. 39, figs. 1, 2.
Mississippian, Kinderhook Bed no. 6.
Burlington, Iowa; S. Weller Collection.

Referred specimen: UC 6694.
S. Weller, 1914, pp. 308–310, pl. 37, fig. 7.
Mississippian, Louisiana Limestone.
Louisiana, Missouri; Gurley Collection.

Referred specimen: UC 6700.
S. Weller, 1914, pp. 308–310, pl. 37, figs. 1–5.
Mississippian, Louisiana Limestone.
Clarksville, Missouri; Gurley Collection.

Referred specimen: UC 13335, a pedicle valve.
S. Weller, 1914, pp. 308–310, pl. 37, fig. 6.
Mississippian, Louisiana Limestone.
Louisiana, Missouri; Hall Collection.

Spirifer marshallensis S. Weller, 1914
Holotype, not designated, to be selected from UC 13541.

Referred specimens: UC 13541, two brachial valves.
S. Weller, 1914, p. 349, pl. 50, figs. 13, 14.
Mississippian, Kinderhook.
Le Grand, Iowa; collected by S. Weller, 1902.

Spirifer (Martinia) tenuispinatus Herrick, 1888
Holotype: UC 13119, a pedicle valve.
Herrick, 1888b, p. 27, pl. 2, fig. 4.
Herrick, 1895, pl. 15, fig. 4.
= *Reticularia tenuispinata* (Herrick, 1888)
S. Weller, 1898, p. 522.
Mississippian, Waverly Group, 70 feet under Conglomerate I.
Hall locality 385, "On the road to Jersey. Moot's Run, St. Albans Township, Licking County, Ohio"; Hall Collection.

Spirifer matheri Dunbar and Condra, 1932
See: *Spirifer rockymontanus* Marcou, 1858.

Spirifer missouriensis Swallow, 1860

Referred specimens: UC 9663, ten specimens.
S. Weller, 1914, pp. 319–320, pl. 39, figs. 15–23.
Mississippian, Chouteau Limestone.
Chouteau Springs, Missouri; Sampson Collection.

Referred specimen: UC 10719.
S. Weller, 1914, pp. 319–320, pl. 39, figs. 11–14.
Mississippian, Chouteau Limestone.
Pettis County, Missouri; Broadhead Collection.

Spirifer montgomeryensis S. Weller, 1914

Holotype: original designation UC 13330, a pedicle valve.
S. Weller, 1914, pp. 367–368, pl. 55, fig. 9.
Mississippian, Keokuk Limestone.
Crawfordsville, Indiana; Hall Collection.

Spirifer mortonanus S. A. Miller, 1883

Referred specimens: UC 12213, two specimens.
Hall and Clarke, 1893, p. 38.
Hall and Clarke, 1895a, pl. 38, fig. 19.
Mississippian, Keokuk Group.
Hall locality 377, "Darlington, Indiana, 10 miles northeast of Crawfordsville Indiana"; Hall Collection.

Referred specimens: UC 13521, five specimens.
S. Weller, 1914, pp. 366–367, pl. 58, fig. 3, pl. 59, figs. 4–6.
Mississippian, Keokuk Group, Crawfordsville Beds.
Crawfordsville, Indiana; Gurley Collection.

Referred specimens: UC 13328, three specimens.
S. Weller, 1914, pp. 366–367, pl. 58, figs. 1, 2, pl. 59, figs. 1–3.
Mississippian, Keokuk Group, Crawfordsville Beds.
Hall locality 359, "Crawfordsville, Indiana. Herzer collection"; Hall Collection.

Spirifer mundulus Rowley, 1893

Referred specimen: UC 5635, a pedicle valve.
S. Weller, 1914, pp. 333–334, pl. 44, fig. 19.
Mississippian, Burlington Limestone.
Near Springfield, Missouri; S. Weller Collection.

Spirifer murchisoni Castelnau, 1843

Referred specimens: UC 27500, three single valves.
Stewart *in* Branson, 1922, p. 246, pl. 65, figs. 9–11.

Devonian, Little Saline Limestone.

Little Saline Creek and Missouri.

Remarks: *S. murchisoni* = *Acrospirifer murchisoni* (Castelnau, 1843) Cooper *in* Shimer and Shrock, 1944, pp. 323–325.

Spirifer nearpassi S. Weller, 1903

Referred specimens: UC 10462, two specimens.
S. Weller, 1903, p. 330, pl. 42, figs. 19–22.

Devonian, Lower Oriskany.

S. Weller, 1903 locality $2A^{33}$, Nearpass Section, New Jersey; New Jersey Collection.

Spirifer octocostatus Hall, 1857

Referred specimens: UC 10442, two single valves.
S. Weller, 1903, p. 288, pl. 30, figs. 5, 8.

Devonian, Coeyman's Limestone.

S. Weller locality 15c, near Hainesville, New Jersey; New Jersey Collection.

Spirifer osagensis Swallow, 1860

Referred specimens: UC 13545, three specimens.
S. Weller, 1914, pp. 314–316, pl. 37, figs. 18–20.

Mississippian, Hannibal Sandstone.

Louisiana, Missouri; collected by S. Weller, 1902.

See also: *Spirifer marionensis* Shumard, 1855.

Spirifer pellaensis S. Weller, 1914

Referred specimen: UC 338.
S. Weller, 1914, pp. 340–341, pl. 45, fig. 30.

Mississippian, Residual Chert.

Springfield, Missouri; S. Weller Collection

See also: *Spirifer keokuk* Hall, 1858.

Spirifer piersonensis Moore, 1928

Holotype: original designation UC 32116.

Moore, 1928, pp. 274–275, pl. 12, figs. 20–22.

= *Delthyris novamexicana* (S. A. Miller, 1881)
Branson, 1938a, p. 59, pl. 6, figs. 8–10.

= *Amesopleura novamexicana* (S. A. Miller, 1881)
Carter, 1967, p. 366.

Mississippian, Pierson Limestone.

Little Sac River, nine miles north of Springfield, Greene County, Missouri; Moore Collection.

Spirifer platynotus S. Weller, 1914

Holotype, not designated, to be selected from UC 13544 and UC 6674.

Referred specimens: UC 13544, seven specimens.
S. Weller, 1914, pp. 317–319, pl. 39, figs. 2–6.

Mississippian, Kinderhook Bed no. 6.

Burlington, Iowa; collected by S. Weller, 1902.

Referred specimen: UC 6674.

See: *Spirifer marionensis* Shumard, 1855.

Referred specimen: UC 7502.
S. Weller, 1914, pp. 317–319, pl. 39, figs. 7–10.

Mississippian, Kinderhook Bed no. 5.

Burlington, Iowa; Gurley Collection.

Spirifer praemonens Hall and Clarke, 1893 [nom. nud.]

Holotype: UC 53092.
Hall and Clarke, 1893, p. 37.

Silurian, Niagara Group.

Hamilton, Ontario, Canada; Hall Collection.

Remarks: Listed by Hall and Clarke, 1893, p. 37, not described or illustrated.

Spirifer rockymontanus Marcou, 1858

Referred specimens: UC 16138, two specimens.
Mather, 1915, pp. 181–184, pl. 12, figs. 3–4c.

= "cotypes" of *Spirifer matheri* Dunbar and Condra, 1932
Dunbar and Condra, 1932, p. 322.
Sadlick, 1960, p. 1212.

= *Anthracospirifer matheri* (Dunbar and Condra, 1932)
Hoare, 1966, personal communication.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 140, near Fayetteville, Arkansas; Mather, donor.

Referred specimen: UC 16139, a pedicle valve.
Mather, 1915, pp. 181–184, pl. 12, fig. 5.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 134, near Fayetteville, Arkansas; Mather, donor.

Referred specimen: UC 16140, a brachial valve.
Mather, 1915, pp. 181–184, pl. 12, fig. 6.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 135, near Fayetteville, Arkansas; Mather, donor.

Referred specimens: UC 16141, two specimens.
Mather, 1915, pp. 181–184, pl. 12, figs. 1–1c.

Pennsylvanian, Brentwood Limestone.

Mather, 1915 station 210, Sawney Hollow, Oklahoma; Mather, donor.

Referred specimen: UC 16142.
Mather, 1915, pp. 181–184, pl. 12, figs. 2–2c.

Pennsylvanian, Hale Formation.

Mather, 1915 station 136, East Mountain, Fayetteville, Arkansas; Mather, donor.

Remarks: The specimen figured by Mather, 1915, pl. 12, figs. 4–4c was designated the holotype of *Spirifer matheri* Dunbar and Condra, 1932, by Sadlick, 1960, p. 1212.

Spirifer rostellatus Hall, 1858

Holotype: UC 6930.
Hall, 1858, pp. 641–642, pl. 20, figs. 2a–c.
Hall and Clarke, 1895a, pl. 32, fig. 5.
S. Weller, 1914, pp. 353–354, pl. 48, figs. 6–9.

Mississippian, Keokuk Limestone.

S. Weller and museum catalogue locality, Warsaw, Illinois.

Hall locality, Skunk River, Iowa; Gurley Collection.

Referred specimens: UC 339, seven specimens.
S. Weller, 1914, pp. 353–354, pl. 48, figs. 15, 16.
Mississippian, Residual Chert.
Springfield, Missouri; S. Weller Collection.

Spirifer rowleyi S. Weller, 1914
Holotype: UC 13537.
See: *Spirifer grimesi* Hall, 1858.

Referred specimen: UC 13919, a pedicle valve.
S. Weller, 1914, pp. 360–361, pl. 53, fig. 6.
Mississippian, Fern Glen Formation.
S. Weller 1914 locality 22, Fern Glen, Missouri; collected by S. Weller, 1906.

Referred specimen: UC 14783.
S. Weller, 1914, pp. 360–361, pl. 53, figs. 3, 4.
Mississippian, Lake Valley Beds.
Lake Valley, New Mexico; Frank Springer, donor.

Spirifer setigerus Hall, 1858
Holotype: UC 7561A.
Hall, 1858, p. 705, pl. 27, figs. 4a, 4b.
Hall and Clarke, 1893, p. 21.
Hall and Clarke, 1894, pl. 25, figs. 13, 14.
Hall and Clarke, 1895a, pl. 27, figs. 26, 27.
= *Reticularia setigera* (Hall, 1858)
S. Weller, 1914, pp. 431–433, pl. 74, figs. 12–16.
= *Torynifer setigera* (Hall, 1858)
Cooper *in* Shimer and Shrock, 1944, p. 327, pl. 126, figs. 13, 14.

Referred specimen: UC 7561.
Hall, 1858, p. 705.
Hall and Clarke, 1893, p. 21.
= *Reticularia setigera* (Hall, 1858)
S. Weller, 1914, pp. 431–433.
= *Torynifer setigera* (Hall, 1858)
Cooper *in* Shimer and Shrock, 1944, p. 327.
Mississippian, Chester Group.
Chester, Illinois; Gurley Collection.

Spirifer shepardi S. Weller, 1914

Holotype, not designated, to be selected from UC 8540.

Referred specimens: UC 8540, eight specimens.
S. Weller, 1914, pp. 313–314, pl. 38, figs. 6–8.
Branson, 1938a, p. 63, pl. 7, figs. 4–6.

Mississippian, Kinderhook, Pierson Limestone.

Near Springfield, Missouri; S. Weller Collection.

Spirifer striatiformis Meek, 1875

Referred specimens: UC 5656 [not UC 5676], four specimens.
S. Weller, 1914, pp. 364–366, pl. 48, fig. 21.

Mississippian, Chouteau Limestone.

Greene County, Missouri; S. Weller Collection.

Referred specimen: UC 13518 [not UC 13578].
S. Weller, 1914, pp. 364–366, pl. 48, figs. 17–20.

Mississippian, Waverly.

Medina, Ohio; Hall Collection.

Spirifer subcardiiformis Hall, 1858

Referred specimen: UC 6352.
White, 1883, p. 165, pl. 41, figs. 2a–c.

=*Brachythyris subcardiiformis* (Hall, 1858)
S. Weller, 1914, pp. 376–377, pl. 60, figs. 7–11.

Mississippian, Salem Limestone.

Spergen Hill, Indiana; Gurley Collection.

Spirifer subrotundatus Hall, 1858

"Cotype": UC 14214.

See: *Spirifer subrotundatus* Hall, 1858, in catalogue of casts.

Referred specimen: UC 5932.
S. Weller, 1900a, pp. 76–77, pl. 2, figs. 8–10.

=*Spirifer subrotundus* S. Weller, 1914
S. Weller, 1914, pp. 356–357, pl. 50, figs. 19–22.

Mississippian, Chonopectus Sandstone.

Burlington, Iowa; S. Weller Collection.

Spirifer subrotundus S. Weller, 1914

"Cotype": UC 14214.

See: *Spirifer subrotundatus* Hall, 1858, in catalogue of casts.

Referred specimen: UC 8618.
S. Weller, 1914, pp. 356–357, pl. 50, figs. 15–18.
Mississippian, Chonopectus Sandstone.
Burlington, Iowa; Gurley Collection.
See also: *Spirifer subrotundatus* Hall, 1858.

Spirifer tenuicostatus Hall, 1858

Referred specimen: UC 7505.
S. Weller, 1914, pp. 328–330, pl. 42, figs. 14–16.
Mississippian, Keokuk.
Warsaw, Illinois; Gurley Collection.

Referred specimen: UC 7506.
S. Weller, 1914, pp. 328–330, pl. 42, figs. 10–13.
Mississippian, Keokuk.
Bentonsport, Iowa; Gurley Collection.

Spirifer vantuyli Moore, 1928

Holotype, not designated, to be selected from UC 32115.

Referred specimens: UC 32115, four specimens.
Moore, 1928, pp. 275–276, pl. 12, figs. 11–16.
Branson, 1938a, pp. 63–64, pl. 6, figs. 32–34.
Mississippian, Chouteau Bed no. 4.
Kiesinger Bluff, two miles north of Warsaw, Benton County, Missouri; Moore Collection.

Spirifer vanuxemi var. **minor** S. Weller, 1903

Referred specimen: UC 10358, a pedicle valve.
S. Weller, 1903, p. 238, pl. 21, figs. 41, 42.
Silurian, Decker Ferry.
S. Weller, 1903 locality $2A^{10}$, William Nearpass Quarry, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.
Remarks: UC 10358 is one of the specimens originally figured by S. Weller, 1903.

Spirifer cf. **varicosa** Hall, 1857

Referred specimens: UC 24799, two specimens.

Stewart *in* Branson, 1922, p. 246, pl. 65, fig. 12.

Devonian, Upper Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Spirifer vernonensis Swallow, 1860

Referred specimens: UC 4686, two specimens.
S. Weller, 1909, pp. 302–304, pl. 13, figs. 3–6, 8.
S. Weller, 1914, pp. 310–311, pl. 37, figs. 8–13.

Mississippian, Fern Glen Formation.

Near Kimmswick, Missouri; collected by S. Weller, 1896.

Referred specimen: UC 13535.
S. Weller, 1909, pp. 302–304, pl. 13, fig. 7.
S. Weller, 1914, pp. 310–311, pl. 37, figs. 14–17.

Mississippian, Fern Glen Formation.

Fern Glen, Missouri; collected by S. Weller, 1908.

Spirifer washingtonensis S. Weller, 1914

Holotype, not designated, to be selected from UC 7522, UC 13550, UC 13577.

Referred specimens: UC 7522, three specimens.
S. Weller, 1914, pp. 339–340, pl. 44, figs. 10–12.

Mississippian, Salem Limestone [catalogue]; Keokuk Limestone [published].

Spergen Hill, Indiana; Gurley Collection.

Referred specimens: UC 13550, three specimens.
S. Weller, 1914, pp. 339–340, pl. 44, figs. 1–9.

Mississippian, Keokuk Limestone.

Monroe County, Illinois; Gurley Collection.

Referred specimens: UC 13577, two specimens.
S. Weller, 1914, pp. 339–340, pl. 44, figs. 13, 14.

Mississippian, Keokuk Limestone.

Salem, Indiana; Gurley Collection.

Spirifer whitneyi Hall, 1858

Referred specimen: UC 26066.
Fenton and Fenton, 1924, pp. 146–148, pl. 28, figs. 4, 5.

Referred specimen: UC 26067.
Fenton and Fenton, 1924, pp. 146–148, pl. 30, fig. 17.
Devonian, Hackberry Stage, *Spirifer* Zone.
Clay Pit, Rockford, Iowa; Fenton Collection.

Spirifer whitneyi gradatus C. L. Fenton, 1918
Holotype, not designated, to be selected from UC 26024, UC 26025, UC 26026, UC 26027.

Referred specimen: UC 26024.
C. L. Fenton, 1918, pp. 219–220, pl. 6, figs. 9, 10.

Referred specimen: UC 26025.
C. L. Fenton, 1918, pp. 219–220.

Referred specimen: UC 26026.
C. L. Fenton, 1918, pp. 219–220, pl. 6, fig. 7.
Fenton and Fenton, 1924, pp. 148–151, pl. 28, figs. 12, 13.

Referred specimen: UC 26027.
C. L. Fenton, 1918, pp. 219–220, pl. 6, fig. 8.
Fenton and Fenton, 1924, pp. 148–151, pl. 28, figs. 10, 11.
Devonian, Hackberry Stage, *Spirifer* Zone.
Clay Pit, Rockford, Iowa; Fenton Collection.

Spirifer whitneyi productus C. L. Fenton, 1918
Holotype: original designation UC 26022.
C. L. Fenton, 1918, pp. 220–221, pl. 6, figs. 5, 6.
Fenton and Fenton, 1924, pp. 153–154, pl. 28, fig. 22.

Referred specimen: UC 26023.
Fenton and Fenton, 1924, pp. 153–154, pl. 28, figs. 19–21.
Devonian, Hackberry Stage, *Spirifer* Zone.
Clay Pit, Rockford, Iowa; Fenton Collection.

Spirifer whitneyi rockfordensis C. L. Fenton, 1918
Holotype: UC 26069.
C. L. Fenton, 1918, p. 219, pl. 6, figs. 3, 4.
Fenton and Fenton, 1924, pp. 151–152, pl. 28, figs. 14–16.
Devonian, Hackberry Stage, *Spirifer* Zone.
Clay Pit, Rockford, Iowa; Fenton Collection.

Spirifer whitneyi subsiduus Fenton and Fenton, 1924
Referred specimen: UC 26071.
Fenton and Fenton, 1924, pp. 152–153.
Devonian, Hackberry Stage, *Spirifer* Zone.
Clay Pit, Rockford, Iowa; Fenton Collection.

Referred specimens: UC 26072, two specimens.
Fenton and Fenton, 1924, pp. 152–153.
Devonian, Hackberry Stage, *Spirifer* Zone.
Hackberry Creek, Iowa; Fenton Collection.

Spirifer williamsi Hall and Clarke, 1893
Holotype, not designated, to be selected from UC 12211.

Referred specimens: UC 12211, two specimens.
Hall and Clarke, 1893, p. 361.
Hall and Clarke, 1895a, pl. 37, figs. 20–22.
Hall and Clarke, 1895b, p. 356, pl. 7, figs. 17–19.
Hall and Clarke, 1895c, p. 356, pl. 7, figs. 17–19.
Devonian, Chemung Group.
Alleghany County, New York; Hall Collection.

Spirifer sp.
Referred specimen: UC 5653.
S. Weller, 1914, pl. 53, fig. 7.
Mississippian, Osage [catalogue]; Keokuk Limestone [published].
Near Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 10441, a single valve.
S. Weller, 1903, pl. 30, fig. 4.
Devonian, Coeyman's Limestone.
S. Weller, 1903 locality 15C, near Hainesville, New Jersey; New Jersey Collection.

Spirifera granulifera (Hall, 1843)
Referred specimen: UC 11755, a single valve.
Hall, 1883b, pl. 53, fig. 9.
=*Spirifer granulosus* (Conrad, 1839)
Hall and Clarke, 1893, pp. 29–30.
Hall and Clarke, 1895a, pl. 23, fig. 9.
=?*Spinocyrtia granulosa* (Conrad, 1839)
Ehlers and Wright, 1955, p. 7.

Referred specimen: UC 11980, a single valve.
Hall, 1883b, pl. 53, fig. 2.
=*Spirifer granulosus* (Conrad, 1839)
Hall and Clarke, 1893, pp. 29–30.
Hall and Clarke, 1894, p. 757, pl. 28, fig. 12.
Hall and Clarke, 1895a, pl. 23, fig. 2.
=?*Spinocyrtia granulosa* (Conrad, 1839)
Ehlers and Wright, 1955, p. 7.
Devonian, Hamilton Group.
Hill south of Schoharie, New York; Hall Collection.

Spiriferella latior S. Weller, 1914
Holotype: original designation UC 13566, a pedicle valve.
S. Weller, 1914, pp. 414–415, pl. 63, fig. 9.
Mississippian, Burlington Limestone.
Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 13570.
S. Weller, 1914, pp. 414–415, pl. 63, fig. 10.
Mississippian, Burlington Limestone.
Osceola, Missouri; S. Weller Collection.

Spiriferella neglecta (Hall, 1858)
Referred specimens: UC 5650, three specimens.
S. Weller, 1914, pp. 415–416, pl. 64, fig. 9.
Mississippian, Residual Chert.
Springfield, Missouri; S. Weller Collection.
Remarks: *S. neglecta*=*Dimegelasma neglecta* (Hall, 1858)
Cooper, 1942, p. 232.

Referred specimen: UC 8616.
S. Weller, 1914, pp. 415–416, pl. 64, figs. 5–8.
=*Dimegelasma neglecta* (Hall, 1858)
Pitrat *in* Moore, 1965, p. 714, text figs. 580,4a–d.
Mississippian, Keokuk Limestone.
Edwardsville, Indiana; Gurley Collection.

Spiriferella plena Hall, 1858
Referred specimen: UC 7053.

S. Weller, 1914, pp. 412–414, pl. 63, figs. 5–7, pl. 64, figs. 1, 2.
Mississippian, Burlington Limestone.
Quincy, Illinois; Gurley Collection.

Referred specimen: UC 7548, a pedicle valve.
S. Weller, 1914, pp. 412–414, pl. 63, fig. 8.
Mississippian, Burlington Limestone.
Burlington, Iowa; Gurley Collection.

Referred specimen: UC 13554.
S. Weller, 1914, pp. 412–414, pl. 64, figs. 3, 4.
Mississippian, Residual Chert.
Sedalia, Missouri; Sampson Collection.

Spiriferina kentuckiensis (Shumard, 1855)

Referred specimen: UC 7708A.
Sayre, 1930, pp. 100–101, pl. 7, figs. 7–7b.
Pennsylvanian, Drum Limestone [published].
La Salle, Illinois [catalogue]; Kansas City, Missouri [published]; Gurley Collection.

Spiriferina magnicostatus S. Weller, 1909

Holotype, not designated, to be selected from UC 4690.

Referred specimens: UC 4690, ten specimens.
S. Weller, 1909, pp. 307–308, pl. 13, figs. 12–15.
= *Delthyris novamexicana* (S. A. Miller, 1881)
S. Weller, 1914, pp. 304–305, pl. 36, figs. 15–17.
= *Amesopleura novamexicana* (S. A. Miller, 1881)
Carter, 1967, pp. 366–370.
Mississippian, Fern Glen Formation.
S. Weller, 1909 locality 9, near Kimmswick, Missouri; S. Weller Collection.

Spiriferina norwoodana (Hall, 1858)

Referred specimens: UC 5636, eight specimens.
S. Weller, 1914, pp. 295–296, pl. 36, figs. 41–48.
Mississippian, Salem Limestone.
Bloomington, Indiana; S. Weller Collection.

Spiriferina solidirostris White, 1862

Referred specimens: UC 13949, 23 specimens.
S. Weller, 1914, pp. 292–294, pl. 36, figs. 29–34.

Mississippian, Kinderhook.

Le Grand, Iowa; Gurley Collection.

Spiriferina spinosa (Norwood and Pratten, 1855)

Referred specimens: UC 7496, 13 specimens.
S. Weller, 1914, pp. 299–300, pl. 35, figs. 50–53.

Mississippian, Chester Group (Kaskaskia).

Randolph County, Illinois; Gurley Collection.

Referred specimens: UC 7498, five specimens.
S. Weller, 1914, pp. 299–300, pl. 35, figs. 54–58.

Mississippian, Chester Group.

Monroe County, Illinois; Gurley Collection.

Referred specimens: UC 16995, seven specimens.
Easton, 1942, pl. 7, fig. 2.

Mississippian, Pitkin Formation.

Snider locality P9, northwest of Hulbert, Oklahoma; Snider, donor.

Referred specimen: UC 25431.
S. Weller, 1920, pp. 353–354, pl. 8, fig. 15.

Mississippian, Paint Creek Shale.

S. Weller, 1920 locality W 567, one and one-fourth miles northwest of Floraville, Illinois; collected by S. Weller, 1911.

Referred specimens: UC 25432, two specimens.
S. Weller, 1920, pp. 353–354, pl. 8, fig. 16.

Mississippian, Paint Creek Formation.

S. Weller, 1920 locality W 648, six miles south of Vienna, Illinois; collected by S. Weller, 1913.

Remarks: *S. spinosa*= *Reticulariina spinosa* (Norwood and Pratten, 1855)

Cooper *in* Shimer and Shrock, 1944, p. 361.

Spiriferina subelliptica (McChesney, 1860)

Referred specimens: UC 13427, seven specimens.
S. Weller, 1914, pp. 294–295, pl. 36, figs. 56, 57.

Mississippian, Keokuk Limestone.

Hall locality 357, "Lebanon, Kentucky. Herzer collection" and Hall locality 358, "South of Louisville, Kentucky. Herzer collection."

Hall Collection.

Spiriferina subspinosa S. Weller, 1920

Holotype, not designated, to be selected from UC 25394, UC 25395.

Referred specimens: UC 25394, three specimens.
S. Weller, 1920, pp. 352–353, pl. 8, figs. 11–14.

Mississippian, Shetlerville Formation.

S. Weller, 1920 locality W 327, Fairview Bluff, Hardin County, Illinois; collected by S. Weller, 1907.

Referred specimens: UC 25395, two specimens.
S. Weller, 1920, pp. 352–353, pl. 8, figs. 7–10.

Mississippian, Shetlerville Formation.

S. Weller, 1920 locality K14, Moore Glade, four miles west of Marion, Kentucky; collected by S. Weller, 1915.

Spiriferina subtexta White, 1862

Referred specimens: UC 13914, two specimens.
S. Weller, 1910, pp. 309–310, pl. 13, figs. 16–19.
S. Weller, 1914, pp. 291–292, pl. 36, fig. 40.

Mississippian, Fern Glen Formation.

Near Kimmswick, Missouri; collected by S. Weller, 1898.

Spiriferina transversa (McChesney, 1860)

Referred specimens: UC 7507, four specimens.
S. Weller, 1914, pp. 297–299, pl. 35, figs. 41–49.

Mississippian, Chester Group.

Chester, Illinois; Gurley Collection.

Referred specimen: UC 16146, a brachial valve.
Mather, 1915, pp. 192–193, pl. 13, fig. 8.

Pennsylvanian, Kessler Limestone.

Mather, 1915 station 209, East Mountain, Fayetteville, Arkansas; Mather, donor.

Referred specimen: UC 16147.

Mather, 1915, pp. 192–193, pl. 13, fig. 7.
Pennsylvanian, Brentwood Limestone.
Mather, 1915 station 135, near Fayetteville, Arkansas; Mather, donor.

Referred specimens: UC 25396, two specimens.
S. Weller, 1920, pp. 353, pl. 8, figs. 17, 18.
Mississippian, Shetlerville Formation.
S. Weller 1920 locality K17, Lemon Quarry, near Marion, Kentucky; collected by S. Weller, 1915.

Spiriferina walcotti (Sowerby, 1823)
Referred specimen: UC 11958, a pedicle valve [broken since published].
Hall and Clarke, 1893, p. 53, text fig. 42.
Hall and Clarke, 1894, p. 765, text fig. 294.
Lias (Jurassic).
England?; Hall Collection.

Spiriferina sp.
Referred specimen: UC 7531.
S. Weller, 1914, pl. 35, figs. 39, 40.
Mississippian, Keokuk Limestone.
Keokuk, Iowa; Gurley Collection.

Spiriferina sp.?
Referred specimen: UC 11959, a pedicle valve.
Hall and Clarke, 1895a, pl. 39, fig. 24.
Mississippian, Chester Group [catalogue].
Hall locality label 423 on specimen, "The Brachiopods seem to be mainly Keokuk species with a few St. Louis species. From—."
Caldwell County, Kentucky [catalogue]; Hall Collection.

Squamularia perplexa (McChesney, 1860)
Referred specimen: UC 16093.
Mather, 1915, pp. 188–191, pl. 12, figs. 13–13b.
Pennsylvanian, Brentwood Limestone.
Mather, 1915 station 152, near Fayetteville, Arkansas; Mather, donor.
Remarks: *S. perplexa*=?*Phricodothyris perplexa* (McChesney, 1860) Pitrat *in* Moore, 1965, p. 724.

Squamularia transversa Mather, 1915
Holotype, not designated, to be selected from UC 16094.

Referred specimens: UC 16094, four specimens.
Mather, 1915, pp.191–192, pl. 12, figs. 8–9a.
Pennsylvanian, Hale Formation.
Mather, 1915 station 149, East Mountain, Fayetteville, Arkansas; Mather, donor.
Remarks: *S. transversa*=?*Phricodothyris transversa* (Mather, 1915) Pitrat *in* Moore, 1965, p. 724.

?Stegacanthia biseriata (Hall, 1858)
See: *Echinoconchus biseriatus* (Hall, 1858).

Stenochisma deckerensis (S. Weller, 1903)
See: *Rhynchonella deckerensis* S. Weller, 1903.

Stenoscisma explanata (McChesney, 1860)
See: *Camarophoria explanata* (McChesney, 1860).

Streptorhynchus approximata James, 1881
Holotype, not designated, to be selected from UC 2394.

Referred specimens: UC 2394, two specimens.
James, 1881, p. 43.
=*Strophomena vetusta-approximata* (James, 1881)
Foerste, 1912, pp. 101–102, pl. 6, figs. 1A–D.
Ordovician, Cincinnatian Series.
Dearborn County, Indiana; James Collection.

Streptorhynchus filitexta (Hall, 1847)
Referred specimen: UC 11939, a pedicle valve.
Hall, 1883b, pl. 42, fig. 15.
=*Strophomena filitexta* (Hall, 1847)
Hall and Clarke, 1892a, pl. 9A, fig.15.
=*Strophomena neglecta* (James, 1881)
Winchell and Schuchert, 1893, p. 388.
Ordovician, Cincinnatian Series.
Waynesville, Ohio; Hall Collection.

Streptorhynchus hallanum (S. A. Miller, 1874)
See: *Streptorhynchus*? *hallie* S. A. Miller, 1874.

Streptorhynchus? hallie S. A. Miller, 1874
Referred specimens: UC 8848, three single valves.
S. A. Miller, 1874, pp. 148–149, text figs. 14–16.
=*Streptorhynchus hallanum* S. A. Miller, 1874
S. A. Miller, 1889, p. 378, text figs. 618, 619.
=*Strophomena hallie* (S. A. Miller, 1874)
Hall and Clarke, 1892a, p. 252.
Foerste, 1912, pp. 38–46, pl. 2, figs. 1A–C.
Ordovician, Cincinnatian Series, Eden Bed.
Cincinnati, Ohio; Faber Collection.

Streptorhynchus minutum (Cumings, 1901)
Referred specimens: UC 462, six specimens.
S. Weller, 1914, pp. 70–71, pl. 6, figs. 16–21.
Mississippian, Salem Limestone.
Bloomington, Indiana; S. Weller Collection.

Streptorhynchus cf. **S. minutum** (Cumings, 1901)
Referred specimens: UC 14823, two specimens.
S. Weller, 1916, p. 246, pl. 16, fig. 2.
Mississippian, Ste. Genevieve Limestone.
Fountain Creek, near Waterloo, Illinois; collected by S. Weller, 1906.

Streptorhynchus neglecta James, 1881
Holotype: designated by Foerste, 1912, p. 90; UC 2393A.
James, 1881, pp. 41–42.
Cumings, 1908, pp. 934–936.
=*Strophomena neglecta* (James, 1881)
Foerste, 1912, pp. 90–95, pl. 5, figs. 1A–B, pl. 9, fig. 1.
Referred specimen: UC 2393.
James, 1881, pp. 41–42.
Cumings, 1908, pp. 934–936.
=*Strophemena neglecta*? (James, 1881) probably nearer *Strophomena vetusta-precursor* Foerste, 1912.
Foerste, 1912, pp. 90–98, pl. 5, figs. 2A–B.

Ordovician, Richmond Group, Waynesville Beds.
Near Blanchester, Ohio; James Collection.

Streptorhynchus ruginosum (Hall and Clarke, 1892)
Holotype: UC 11912.
See: *Derbya ruginosa* Hall and Clarke, 1892

Referred specimens: UC 282, nine specimens.
S. Weller, 1914, pp. 71–73, pl. 5, figs. 15, 16.
Mississippian, Residuary Chert.
Springfield, Missouri; S. Weller Collection.

Referred specimens: UC 10129, four specimens.
S. Weller, 1914, pp. 71–73, pl. 5, figs. 6–9, 19.
Mississippian, St. Louis Limestone.
Cavanaugh's Quarry, St. Louis, Missouri; Van Horne Collection.

Referred specimens: UC 14758, two specimens.
S. Weller, 1914, pp. 71–73, pl. 5, figs. 13, 14.
Mississippian, Salem Limestone.
Hull's Hollow, near Alton, Illinois; Van Horne Collection.

Referred specimes: UC 10922.
S. Weller, 1914, pp. 71–73, pl. 5, figs. 17, 18.

Referred specimen: UC 14759, a pedicle valve.
S. Weller, 1914, pp. 71–73, pl. 5, fig. 12.
Mississippian, St. Louis Limestone.
Alton, Illinois; Van Horne Collection.
See also: *Streptorhynchus williamsi* S. Weller, 1897.

Streptorhynchus (Strophomena) elongata James, 1874
Holotype, not designated, to be selected from UC 510.

Referred specimens: UC 510, eight specimens.
James, 1874d, p. 240.
=*Strophomena planumbona-elongata* (James, 1874)
Foerste, 1912, pp. 81–84, pl. 4, figs. 1 I–H, pl. 9, figs. 4A–B.
Ordovician, Richmond Group, Waynesville Beds.
Clarksville, Ohio; James Collection.

Streptorhynchus (Strophomena) vetusta James, 1874
Holotype, not designated, to be selected from UC 1567.

Referred specimens: UC 1567, five specimens.
James, 1874d, pp. 241–242.
=*Strophomena vetusta* (James, 1874)
Foerste, 1912, pp. 98–101, pl. 6, figs. 2B–E.
C. L. Fenton, 1928b, pp. 156–157, pl. 9, fig. 9.
Ordovician, Cincinnatian Series.
Cincinnati and Blanchester, Ohio; James Collection.

Streptorhynchus tenuicostatum S. Weller, 1914
Holotype, not designated, to be selected from UC 9665.
Referred specimens: UC 9665, four specimens.
S. Weller, 1914, pp. 69–70, pl. 4, figs. 3–5.
Branson, 1938a, p. 28, pl. 1, fig. 18.
Mississippian, Chouteau Limestone.
Chouteau Springs, Missouri; Sampson Collection.

Streptorhynchus williamsi S. Weller, 1897
Holotype, not designated, to be selected from UC 4956.
Referred specimens: UC 4956, eight specimens.
S. Weller, 1897, pp. 255–256, pl. 19, figs. 1–3.
=*Streptorhynchus ruginosum* (Hall and Clarke, 1892)
S. Weller, 1914, pp. 71–73, pl. 5, figs. 10, 11.
Mississippian, Batesville Sandstone.
S. Weller, 1897 locality 2A, Batesville, Arkansas; collected by S. Weller, 1896.

Stricklandinia anticostiensis Billings, 1859
Referred specimen: UC 12462, a pedicle valve.
Hall and Clarke, 1893, p. 251.
Hall and Clarke, 1895a, pl. 73, fig. 14.
Silurian, Anticosti Group.
Island of Anticosti; Hall Collection.
Remarks: *Stricklandinia* Billings, 1863=*Stricklandia* Billings, 1859
Amsden, 1953, p. 144.

Stricklandinia castellana White, 1876
Referred specimen: UC 14105.
Hall and Clarke, 1893, p. 251.

Hall and Clarke, 1895a, pl. 73, fig. 7.

Silurian, Niagaran.

Jones County, Iowa; Hall Collection.

Remarks: *Stricklandinia* Billings, 1863=*Stricklandia* Billings, 1859 Amsden, 1953, p. 144.

Stricklandinia chapmani Hall and Clarke, 1895

Holotype: UC 12474, a single valve.
Hall and Clarke, 1895a, pl. 83, fig. 40.

Silurian, Niagaran.

Hamilton, Ontario, Canada; Hall Collection.

Remarks: *Stricklandinia* Billings, 1863=*Stricklandia* Billings, 1859 Amsden, 1953, p. 144.

Stricklandinia davidsoni Billings, 1868

Referred specimen: UC 12463.
Hall and Clarke, 1893, p. 251.
Hall and Clarke, 1895a, pl. 73, fig. 15.

Silurian, Anticosti Group.

Hall locality 182, "Anticosti (Island of) Herzer Collection. Others same number from Col. E. C. Grant of Hamilton, Ontario"; Hall Collection.

Remarks: *Stricklandinia* Billings, 1863=*Stricklandia* Billings, 1859 Amsden, 1953, p. 144.

Stricklandinia deformis Meek and Worthen, 1870

Referred specimens: UC 12460, two specimens.
Hall and Clarke, 1895a, pl. 73, figs. 8–10.

Silurian, Niagaran Dolomite.

St. Charles, Illinois; Hall Collection.

Remarks: *Stricklandinia* Billings, 1863=*Stricklandia* Billings, 1859 Amsden, 1953, p. 144.

Stricklandinia pyriformis Savage, 1916

Referred specimens: UC 12282, 11 specimens.
Fisher, 1925, pl. 4, fig. 4.

Silurian, Niagaran Limestone.

S. Weller locality 19, Drummond, Illinois; collected by S. Weller, 1907.

Referred specimen: UC 32948.

Fisher, 1925, pl. 4, fig. 2.

Silurian, Kankakee Limestone.

West bank of Rock Run, sec. 22, Troy Township, Illinois; collected by Fisher.

Remarks: *Stricklandinia* Billings, 1863=*Stricklandia* Billings, 1859 Amsden, 1953, p. 144.

Strophalosia cymbula Hall and Clarke, 1892

Referred specimen: UC 11897.

Hall and Clarke, 1892a, pl. 17A, figs. 8, 9.
Hall and Clarke, 1895b, p. 355.
Hall and Clarke, 1895c, p. 355.
S. Weller, 1914, pp. 145–146, pl. 19, figs. 35, 36.
Sutton, 1938, p. 549, pl. 64, figs. 18, 19.

= *Heteralosia cymbula* (Hall and Clarke, 1892)
Muir-Wood and Cooper, 1960, pp. 80–81.

Mississippian, Keokuk Group, New Providence Shale.

South of Louisville, Kentucky; Hall Collection.

Remarks: UC 11897 is one of the specimens originally figured by Hall and Clarke, 1892. It is not known whether a holotype has been designated.

Strophalosia keokuk Beecher, 1890

Referred specimens: UC 11955, two specimens.

Hall and Clarke, 1892a, pl. 17A, figs. 5–7.

Mississippian, Keokuk Limestone.

Hall locality 751, "Crawfordsville, Indiana. Purchased of Paul Mohr. Cincinnati, Ohio. 1883"; Hall Collection.

Strophalosia radicans (Winchell, 1866)

Referred specimens: UC 11888, two single valves.

Hall and Clarke, 1892a, p. 316, pl. 15B, figs. 27, 30.
Hall and Clarke, 1892b, pl. 21, fig. 9.

Devonian, Hamilton Group.

Little Traverse Bay, Michigan; Hall Collection.

Referred specimens: UC 14806, several valves on a piece of coral.

Beecher, 1890, pp. 242–243, pl. 9, figs. 14–17.

Devonian, Traverse Group.

South Shore, Little Traverse Bay, Michigan; Hall Collection.

Remarks: *S. radicans=Leptalosia radicans* (Winchell, 1866) Dunbar and Condra, 1932, p. 260.

S. radicans=Devonalosia radicans (Winchell, 1866) Muir-Wood and Cooper, 1960, pp. 83–84.

Strophalosia rockfordensis Hall and Clarke, 1892

Referred specimen: UC 12477.

Hall and Clarke, 1892a, pp. 353–354.
Hall and Clarke, 1895a, pl. 84, figs. 20–22.
Hall and Clarke, 1895b, p. 353, pl. 7, figs. 6–8.
Hall and Clarke, 1895c, p. 353, pl. 7, figs. 6–8.

=*Eostrophalosia rockfordensis* (Hall and Clarke, 1892) Stainbrook, 1943, p. 58.

Devonian, Hackberry Stage.

Rockford, Iowa; Hall Collection.

Remarks: UC 12477 is one of the specimens originally figured by Hall and Clarke, 1892–1895. It is not known whether a holotype has been designated.

Strophalosia scintilla Beecher, 1890

Referred specimens: UC 6701, seven specimens.

S. Weller, 1914, p. 144, pl. 18, figs. 19, 20, 22.

Mississippian, Louisiana Limestone.

Louisiana, Missouri; Gurley Collection.

Referred specimens: UC 13048, five specimens.

S. Weller, 1914, p. 144, pl. 18, figs. 21, 23.

Mississippian, Louisiana Limestone.

Hall locality 389, "A collection of Sub-Carboniferous fossils made by Rowley. 1883–1885, also 1888. Pike County, Missouri"; Hall Collection.

Remarks: *S. scintilla=Leptalosia scintilla* (Beecher, 1890) Dunbar and Condra, 1932, p. 260.

Strophalosia spondyliformis (White and St. John, 1868)

Referred specimen: UC 11916, a pedicle valve.

Hall and Clarke, 1892a, p. 316, pl. 17A, figs. 25, 26.

= *Heteralosia slocomi* King, 1938.
King, 1938, pp. 278–279.

Pennsylvanian.

Hall locality 504, "Vicinity of Graham, Texas. Sent by A. B. Grant of Graham Texas"; Hall Collection.

Published locality, "Missouri" is incorrect, King, 1938, p. 279.

Strophalosia truncata (Hall, 1857)

Referred specimens: UC 23977, six specimens.
Branson and Williams *in* Branson, 1922, pp. 141–142, pl. 35, figs. 3, 4.

Devonian, St. Laurent Limestone.

S. Weller locality 14-7, three miles south of St. Marys, Missouri; collected by S. Weller.

Remarks: *S. truncata*=?*Devonalosia truncata* (Hall, 1857)
Muir-Wood and Cooper, 1960, p. 84.

Stropheodonta Hall, 1852=*Strophodonta* Hall, 1850
Williams *in* Moore, 1965, p. 395.

Stropheodonta arata (Hall, 1859)

Referred specimens: UC 21066, two single valves.
Tansey *in* Branson, 1922, p. 187, pl. 46, figs. 33–35.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Stropheodonta bipartita (Hall, 1852)

Referred specimens: UC 10394, four single valves.
S. Weller, 1903, pp. 226–228, pl. 20, figs. 1–5.

=*Stropheodonta* (*Leptostrophia*) *bipartita* (Hall, 1852)
Schuchert and Maynard, 1913, p. 316.

Silurian, Decker Ferry.

S. Weller, 1903 locality $2A^{10}$, William Nearpass Quarry, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Stropheodonta corrugata (Conrad, 1842)

Referred specimen: UC 12475.
Hall and Clarke, 1895a, pl. 84, fig. 14.

Silurian, Clinton Shale.

Rochester, New York; Hall Collection.

Stropheodonta cf. **demissa** (Conrad, 1843)

Referred specimens: UC 27477, two single valves.
Stewart *in* Branson, 1922, pp. 232–233, pl. 61, fig. 18.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Remarks: *S. demissa=Strophodonta* (*Strophodonta*) *demissa* (Conrad, 1843)
Williams *in* Moore, 1965, p. 395.

Stropheodonta cf. **inaequiradiata** Hall, 1857

Referred specimens: UC 27476, two single valves.
Stewart *in* Branson, 1922, p. 233, pl. 61, figs. 19, 20.

Devonian, Upper Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Stropheodonta (Leptostrophia) bipartita (Hall, 1852)

See: *Stropheodonta bipartita* (Hall, 1852).

Stropheodonta (Leptostrophia) planulata (Hall, 1859)

Referred specimens: UC 21052, six specimens.
Tansey *in* Branson, 1922, pp. 187–188, pl. 46, figs. 36–38, pl. 47, figs. 1, 2.

=*Leptostrophia planulata* (Hall, 1859) museum catalogue.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Stropheodonta missouriensis Stewart, 1922

Holotype: UC 27475A, a brachial valve.
Stewart *in* Branson, 1922, p. 232, pl. 61, fig. 22.

Referred specimen: UC 27475, a brachial valve.
Stewart *in* Branson, 1922, p. 232, pl. 61, fig. 21.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Stropheodonta thomasi Fenton and Fenton, 1924

Referred specimen: UC 26079.
Fenton and Fenton, 1924, p. 86, pl. 20, fig. 4.
Devonian, Hackberry Stage, *Spirifer* Zone.
Hackberry Grove, Iowa; Fenton Collection.

Referred specimens: UC 26080, three specimens.
Fenton and Fenton, 1924, p. 86.
Devonian, Hackberry Stage, *Spirifer* Zone, Gypidula Faunule.
Clay Pit, Rockford, Iowa; Fenton Collection.

Strophodonta (Strophodonta) demissa (Conrad, 1843)

See: *Stropheodonta* cf. *demissa* (Conrad, 1843).

Strophomena auburnensis C. L. Fenton, 1928

Holotype: original designation UC 25521, a pedicle valve.
C. L. Fenton, 1928b, pp. 148–149, pl. 9, fig. 1.

Referred specimen: UC 25522.
C. L. Fenton, 1928b, pp. 148–149, pl. 9, figs. 2, 3.

Referred specimens: UC 25523, three single valves.
C. L. Fenton, 1928b, pp. 148–149.
Ordovician, Auburn Chert.
Auburn, Lincoln County, Missouri; collected by S. Weller.

Strophomena conradi Hall and Clarke, 1892

Referred specimen: UC 11928.
Hall and Clarke, 1892a, p. 344, pl. 9A, fig. 3, pl. 20, fig. 33.
Hall and Clarke, 1895b, p. 343, pl. 4, figs. 27, 28.
Hall and Clarke, 1895c, p. 343, pl. 4, figs. 27, 28.
Ordovician, Trenton Limestone.
Hall label W on specimen, "Carboniferous, Huntsville, Alabama from Chas. Wachsmuth, Burlington, Iowa."
Published locality, Jacksonburg, New York; Hall Collection.
Remarks: UC 11928 is one of the specimens originally figured by Hall and Clarke, 1892. It is not known whether a holotype has been designated.

Strophomena declivis James, 1874

Holotype: UC 2392A, a pedicle valve.

James, 1874d, pp. 240–241.
= *Rafinesquina declivis* (James, 1874)
Foerste, 1910, pp. 43–45, pl. 2, fig. 4, pl. 5, figs. 12A–B.

Referred specimens: UC 2392, four pedicle valves.
James, 1874d, pp. 240–241.
= *Rafinesquina declivis* (James, 1874)
Foerste, 1910, pp. 43–45, pl. 5, fig. 12D.

Ordovician, Cincinnatian Series.

Boyd's Station, Kentucky; James Collection.

Strophomena delicatula C. L. Fenton, 1928

Holotype: original designation UC 25537, a pedicle valve.
C. L. Fenton, 1928b, pp. 155–156, pl. 9, fig. 5.

Referred specimen: UC 33400, a single valve.
C. L. Fenton, 1928b, pp. 155–156, pl. 9, fig. 4.

Referred specimens: UC 25539, two specimens; UC 33424, a pedicle valve.
C. L. Fenton, 1928b, pp. 155–156.

Ordovician, Decorah Shale.

Two and one-half miles west of Ste. Genevieve, Missouri; collected by S. Weller.

Strophomena dignata C. L. Fenton, 1928

Holotype: original designation UC 25532, pedicle valve.
C. L. Fenton, 1928b, pp. 151–152, pl. 10, fig. 4.

Referred specimen: UC 25533.
C. L. Fenton, 1928b, pp. 151–152, pl. 10, fig. 3.

Referred specimen: UC 25535, a pedicle valve.
C. L. Fenton, 1928b, pp. 151–152, pl. 10, fig. 5.

Ordovician, Decorah Shale.

Two and one-half miles west of Ste. Genevieve, Missouri; collected by S. Weller.

Strophomena exigua C. L. Fenton, 1928

Holotype: original designation UC 25956, a pedicle valve.
C. L. Fenton, 1928b, p. 152, pl. 10, fig. 6.

Referred specimen: UC 25957, a single valve.

C. L. Fenton, 1928b, p. 152.

Ordovician, Plattin Formation.

South Beckett Hill, Ste. Genevieve County, Missouri; Fenton Collection.

Strophomena filitexta (Hall, 1847)

See: *Streptorhynchus filitexta* (Hall, 1847).

Strophomena gibbosa James, 1874

Holotype, not designated, to be selected from UC 1114.

Referred specimens: UC 1114, eight specimens.
James, 1874b, pp. 333–335.

=*Leptaena gibbosa* (James, 1874)
Foerste, 1912, pp. 116–117, pl. 1, figs. 5A–C.

Ordovician, Cincinnatian.

Eighty feet above James' 1874 low water mark of the Ohio River at Cincinnati, Ohio; James Collection.

Strophomena halli (S. A. Miller, 1874)

See: *Streptorhynchus*? *hallie* S. A. Miller, 1874.

Strophomena hallie (S. A. Miller, 1874)

See: *Streptorhynchus*? *hallie* S. A. Miller, 1874.

Strophomena inconsuetus C. L. Fenton, 1928

Holotype: original designation UC 25987, a pedicle valve.
C. L. Fenton, 1928b, pp. 154–155, pl. 10, fig. 1.

Referred specimen: UC 25989, a pedicle valve.
C. L. Fenton, 1928b, pp. 154–155, pl. 10, fig. 2.

Ordovician, Plattin Limestone.

South Beckett Hill, Ste. Genevieve County, Missouri; Fenton Collection.

Strophomena musculosa C. L. Fenton, 1928

Holotype: original designation UC 25524, a pedicle valve.
C. L. Fenton, 1928b, pp. 153–154, pl. 8, fig. 1.

Referred specimen: UC 25525.
C. L. Fenton, 1928b, pp. 153–154, pl. 8, figs. 6, 7.

Referred specimens: UC 25527, two specimens.
C. L. Fenton, 1928b, pp. 153–154, pl. 8, figs. 2, 5.

Referred specimens: UC 33421, two specimens.
C. L. Fenton, 1928b, pp. 153–154, pl. 8, figs. 3, 4.

Referred specimens: UC 25526, four specimens.
C. L. Fenton, 1928b, pp. 153–154.

Ordovician, Decorah Shale.

Fountain, Minnesota; Van Horne Collection.

Strophomena neglecta (James, 1881)

Referred specimens: UC 25544, two specimens.
C. L. Fenton, 1928b, pp. 157–158, pl. 8, figs. 8, 9.

Ordovician, Richmond.

Blanchester, Ohio; James Collection.

See also: *Streptorhynchus filitexta* (Hall, 1847).
Streptorhynchus neglecta James, 1881.

Strophomena nutans Meek, 1873

Holotype, not designated, to be selected from UC 65.

Referred specimens: UC 65, 19 specimens.
Meek, 1873, pp. 77–79, pl. 6, fig. 1C.
Foerste, 1912, pp. 68–72, pl. 3, fig. 2c.

Ordovician, Cincinnatian Series.

Richmond, Indiana; James Collection.

Remarks: Foerste, 1912, p. 68; "The labelling, Richmond, Indiana, probably is entirely incorrect."

Strophomena planumbona-elongata (James, 1874)

See: *Streptorhynchus* (*Strophomena*) *elongata* James, 1874.

Strophomena plattinensis C. L. Fenton, 1928

Holotype: original designation UC 25988, a pedicle valve.
C. L. Fenton, 1928b, pp. 149–150, pl. 10, fig. 7.

Referred specimen: UC 25983.
C. L. Fenton, 1928b, pp. 149–150, pl. 10, fig. 9.

Referred specimens: UC 25501, three specimens.
C. L. Fenton, 1928b, pp. 149–150, pl. 10, fig. 8.

Referred specimens: UC 25502; UC 25626, two specimens; UC 25984.

C. L. Fenton, 1928b, pp. 149–150.

Ordovician, Plattin Formation.

South Beckett Hill, Ste. Genevieve County, Missouri; Fenton Collection.

Referred specimen: UC 25514.

C. L. Fenton, 1928b, pp. 149–150.

Ordovician, Plattin Formation.

Gabori Creek, Ste. Genevieve County, Missouri; collected by S. Weller.

Strophomena sinuata Meek, 1873 [*not* James, 1871]

Referred specimens: UC 56, 48 specimens.

Meek, 1873, pp. 87–88.

Foerste, 1912, pp. 57–59.

Ordovician, Cincinnatian Series.

Cincinnati, Ohio; James Collection.

Remarks: These are part of the original specimens used by Meek, 1873.

Strophomena squamula James, 1874

Referred specimens: UC 2388, ten specimens.

James, 1874b, p. 335.

S. A. Miller, 1875, p. 56.

= *Rafinesquina squamula* (James, 1874)

Hall and Clarke, 1892a, pp. 281–283.

Foerste, 1914, pp. 264–265.

Ordovician, Cincinnatian Series.

Three hundred fifty feet above James' 1874 low water mark of the Ohio River at Cincinnati, Ohio; James Collection.

Remarks: These are part of the original specimens used by James, 1874.

Strophomena? ulrichi James, 1878

Referred specimens: UC 495, four specimens.

James, 1878, pp. 6–7.

= *Rafinesquina ulrichi* (James, 1878)

Hall and Clarke, 1892a, pp. 281–283.

Ordovician, Cincinnatian Series.

Cincinnati, Ohio [catalogue]; Covington, Kentucky [published]; James Collection.

Remarks: These are part of the series of specimens used by James, 1878.

Strophomena undulosa Roy, 1941

Holotype: original designation P 28273, a dorsal valve. Roy, 1941, pp. 98–99, text fig. 63a.

Ordovician, Richmond Group.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; collected by Roy, 1927.

Referred specimen: P 10840, a ventral valve. Roy, 1941, pp. 98–99, text fig. 63b.

Ordovician, Caradoc.

Marshbrook, Shropshire, England; Exchange, Univ. Bristol, 1910.

Strophomena vetusta (James, 1874)

Referred specimen: UC 25545. C. L. Fenton, 1928b, pp. 156–157, pl. 9, figs. 10, 11.

Ordovician, Richmond.

Blanchester, Ohio; Gurley Collection.

See also: *Streptorhynchus* (*Strophomena*) *vetusta* James, 1874.

Strophomena vetusta-approximata (James, 1881)

See: *Streptorhynchus approximata* James, 1881.

Strophomena winchelli Hall and Clarke, 1892

Referred specimen: UC 25513, a pedicle valve. C. L. Fenton, 1928b, pp. 150–151, pl. 9, fig. 8.

Ordovician, Upper Plattin Formation.

Gabori Creek, Ste. Genevieve County, Missouri; Fenton Collection.

Strophomena sp.

Referred specimen: UC 25540 [not UC 25543], a brachial valve. C. L. Fenton, 1928b, p. 154, pl. 9, fig. 7.

Ordovician, Decorah Shale.

Near Ste. Genevieve, Missouri; collected by S. Weller.

Strophomena sp. I

Referred specimen: P 28274.
Roy, 1941, p. 99, text fig. 64.

Ordovician, Richmond.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; Roy Collection.

Strophomena sp. II

Referred specimen: P 28275, ventral valve.
Roy, 1941, p. 99, text fig. 65.

Ordovician, Richmond.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; collected by Roy, 1927.

Strophonella caelata (Hall, 1867)

Referred specimens: UC 18455, three single valves.
Hall and Clarke, 1892a, p. 293, pl. 15B, fig. 10.

Devonian, Chemung.

Hall locality 608, "Lindley Township, Steuben County, New York. coll. Sherwood, 1879."

Published locality, Addison, Steuben County, New York; Hall Collection.

Remarks: *S. caelata=Strophonelloides caelata* (Hall, 1867)
Williams, 1953, p. 36.

Strophonella costatula Hall and Clarke, 1893

Holotype: UC 12476
Hall and Clarke, 1893, pp. 359–360.
Hall and Clarke, 1895a, pl. 84, figs. 15, 16.
Hall and Clarke, 1895b, p. 354, pl. 6, figs. 9, 10.
Hall and Clarke, 1895c, p. 354, pl. 6, figs. 9, 10.

Silurian, Niagaran.

Louisville, Kentucky; Hall Collection.

Strophonella hybrida quadrata Fenton and Fenton, 1924

Referred specimen: UC 26138.
Fenton and Fenton, 1924, p. 114.

Devonian, Hackberry Stage, *Spirifer* Zone.

West of Rockford, Iowa; Fenton Collection.

Strophonella obesa Fenton and Fenton, 1924

Referred specimen: UC 26061.
Fenton and Fenton, 1924, pp. 108–109, pl. 23, fig. 7.

Devonian, Hackberry Stage, *Spirifer* Zone.

Clay Pit, Rockford, Iowa; Fenton Collection.

Strophonella punctulifera (Conrad, 1838)

Referred specimen: UC 10455, a brachial valve.
S. Weller, 1903, p. 301, pl. 33, fig. 9.

Devonian, Becraft Limestone.

S. Weller 1903 locality 2A[31], Nearpass Section, New Jersey; New Jersey Collection.

Referred specimens: UC 21051, three single valves.
Tansey *in* Branson, 1922, pp. 188–189, pl. 47, figs. 3–5.

Referred specimens: UC 21115, two single valves.
Tansey *in* Branson, 1922, pp. 188–189, pl. 47, fig. 6.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Strophonella reversa gravis C. L. Fenton, 1918

Holotype, not designated, to be selected from UC 26059, UC 26060.

Referred specimen: UC 26059.
C. L. Fenton, 1918, pp. 214–215, pl. 6, figs. 21, 22.
Fenton and Fenton, 1924, p. 105, pl. 22, fig. 23.

Referred specimen: UC 26060.
C. L. Fenton, 1918, pp. 214–215, pl. 6, figs. 18–20.
Fenton and Fenton, 1924, p. 105, pl. 22, fig. 24.

Devonian, Hackberry Stage.

Clay Pit, Rockford, Iowa; Fenton Collection.

Strophonelloides caelata (Hall, 1867)

See: *Strophonella caelata* (Hall, 1867).

Subrensselandia claypolii (Hall, 1891)

See: *Newberria claypolii* Hall, 1891.

Syringothyris bushbergensis S. Weller, 1914

Holotype, not designated, to be selected from UC 13970.

Referred specimens: UC 13970, six specimens.
S. Weller, 1914, pp. 391–392, pl. 73, figs. 8–10.

Mississippian, Bushberg Sandstone.

Near Sulphur Springs, Missouri; collected by S. Weller.

Syringothyris carteri (Hall, 1857)

Referred specimen: UC 5949, cardinal area.
S. Weller, 1899, p. 20, pl. 4, fig. 6.

Referred specimen: UC 5968, a brachial valve.
S. Weller, 1899, p. 20, pl. 4, fig. 5.

Mississippian, Northview Sandstone.

S. Weller locality 1-A, Northview, Missouri; collected by S. Weller, 1898.

See also: *Syringothyris typus* Winchell, 1863.

Syringothyris cuspidatus (Martin, 1796)

Referred specimens: UC 12519, two specimens.
S. Weller, 1914, pl. 73, figs. 1–5.

Carboniferous Limestone.

Waulsort, Belgium; Gurley Collection.

Syringothyris extenuatus (Hall, 1858)

Referred specimen: UC 5929.
S. Weller, 1900a, pp. 77–80, text fig. 1, pl. 2, figs. 1, 2.
S. Weller, 1914, pp. 386–388, pl. 72, figs. 8–12.

Mississippian, Chonopectus Sandstone.

Burlington, Iowa; S. Weller Collection.

Referred specimens: UC 13960, four specimens.
S. Weller, 1914, pp. 386–388, pl. 72, figs. 5–7.

Mississippian, Kinderhook Bed no. 3.

Burlington, Iowa; C. L. Baker, donor.

Syringothyris halli Winchell, 1863

Referred specimens: UC 4614, three specimens.
S. Weller, 1914, pp. 390–391, pl. 72, figs. 18–23.

Mississippian, Kinderhook Bed no. 4.

S. Weller, 1914 locality 18, Flint River, near Burlington, Iowa; collected by S. Weller, 1902.

Syringothyris hannibalensis (Swallow, 1860)

Referred specimen: UC 1086.
S. Weller, 1914, pp. 388–390, pl. 68, figs. 1–5.
Mississippian, Louisiana Limestone.
Louisiana, Missouri; Fred P. Howden, collector.

Referred specimens: UC 11976, two specimens.
Hall and Clarke, 1893, p. 50.
Hall and Clarke, 1895a, pl. 25, figs. 33–35.
Mississippian, Louisiana Limestone [catalogue]; Chouteau Limestone [published].
Pike County, Missouri; Hall Collection.

Referred specimens: UC 13956, two specimens.
S. Weller, 1914, pp. 388–390, pl. 68, figs. 6, 7.
Mississippian, Louisiana Limestone.
Louisiana, Missouri; Greger Collection.

Syringothyris missouri Hall and Clarke, 1895

Holotype: UC 11954 [specimen broken since publication].
Hall and Clarke, 1895a, p. 363, pl. 39, figs. 29–31.
Hall and Clarke, 1895b, p. 358, pl. 8, figs. 14–16.
Hall and Clarke, 1895c, p. 358, pl. 8, figs. 14–16.
S. Weller, 1914, pp. 393–394, pl. 70, figs. 6–9.
Branson, 1938a, p. 67, pl. 6, figs. 5–7.
Mississippian, Chouteau Limestone.
Chouteau Springs, Missouri; Hall Collection.

Referred specimens: UC 13957, two specimens.
S. Weller, 1914, pp. 393–394, pl. 70, figs. 10–15.
Mississippian, Chouteau Limestone.
Dogtown Creek, Calhoun County, Illinois; collected by Univ. Chicago Calhoun County Expedition, 1906.

Syringothyris platypleurus S. Weller, 1914

Holotype: original designation UC 13955.
S. Weller, 1914, pp. 397–399, pl. 72, figs. 1–3.
Mississippian, Residual Chert.

Sedalia, Missouri; Sampson Collection.

Referred specimen: UC 7914, cardinal area.
S. Weller, 1914, pp. 397–399, pl. 72, fig. 4.
Mississippian, Burlington Limestone.
Osceola, Missouri; S. Weller Collection.

Referred specimen: UC 13966.
S. Weller, 1914, pp. 397–399.
Mississippian, Lower Burlington Chert.
Louisiana, Missouri; Gurley Collection.

Syringothyris subcuspidatus (Hall, 1858)
Referred specimen: UC 8634.
S. Weller, 1914, pp. 401–403, pl. 71, figs. 3–7.
Mississippian, Keokuk Limestone.
Warsaw, Illinois; Gurley Collection.

Syringothyris textus (Hall, 1857)
Referred specimen: UC 3275.
S. Weller, 1914, pp. 399–401, pl. 70, figs. 1–4.
Mississippian, Knobstone Formation.
New Providence, Indiana; Washburn Collection.

Referred specimen: UC 7915.
S. Weller, 1914, pp. 399–401, pl. 71, figs. 1, 2.
Mississippian, Osage Group, Residual Chert.
Jasper County, Missouri; S. Weller Collection.

Referred specimens: UC 11975, three specimens.
Hall and Clarke, 1893, p. 50.
Hall and Clarke, 1895a, pl. 26, fig. 12, pl. 27, figs. 4, 5.
Pitrat *in* Moore, 1965, p. 692, text figs. 563,1e, 1f.
Mississippian, Keokuk Limestone.
Hall label on specimen: "Hr," Herzer Collection.
Published locality, New Providence, Indiana; Hall Collection.

Referred specimens: UC 13959, four specimens.
S. Weller, 1914, pp. 399–401, pl. 69, figs. 6–9.
Mississippian, Knobstone Formation.
New Albany, Indiana; Gurley Collection.

Syringothyris typus Winchell, 1863
Referred specimen: UC 8630.
S. Weller, 1914, pp. 395–396, pl. 69, figs. 1–5.
=*Syringothyris carteri* (Hall, 1857)
Pitrat *in* Moore, 1965, p. 692, text figs. 563,1a, 1b.
Mississippian, Burlington Limestone.
Pike County, Illinois; Gurley Collection.

Syringothyris (?) sp.
Referred specimen: UC 13961.
S. Weller, 1914, pl. 73, figs. 6, 7.
Mississippian, Chouteau Limestone.
Providence, Missouri; Broadhead Collection.

Referred specimens: UC 13964, seven specimens.
S. Weller, 1914, pl. 71, figs. 8, 9.
Mississippian, Hannibal Sandstone.
Louisiana, Missouri; collected by S. Weller, 1902.

Terebratula gorbyi S. A. Miller, 1891
Holotype: UC 6605.
S. A. Miller, 1891, p. 77, pl. 13, figs. 3, 4.
S. A. Miller, 1892, p. 687, pl. 13, figs. 3, 4.
=*Terebratula harlani* Morton, 1829
S. Weller, 1907, pp. 357–359.
Mississippian, Keokuk Group.
Edwardsville, Indiana; Gurley Collection.
Remarks: *T. harlani*=*Oleneothyris harlani* (Morton, 1829) Cooper, 1942, p. 233.
S. Weller, 1907, pp. 357–359 corrects stratigraphic position and locality to the Cretaceous Greensands in New Jersey.

Terebratula grahamensis Burwash, 1913
Holotype: UC 15366A.
Burwash, 1913, pp. 86–87, pl. 3, figs. 6a–6c.

Referred specimen: UC 15366, a pedicle valve.
Burwash, 1913, pp. 86–87.
Cretaceous.
Maude Island, Queen Charlotte Islands, Canada; A. Church, donor.

Terebratula harlani Morton, 1829

See: *Terebratula gorbyi* S. A. Miller, 1891.

Terebratula (?) inconstans Herrick, 1888

Referred specimen: UC 35564.
Herrick, 1888b, pp. 24–25, pl. 11, fig. 19.

=*Cryptonella* (?) *inconstans* (Herrick, 1888)
Schuchert, 1897, p. 194.

Devonian, Berea Shale.

Hall locality a/381, "Richland County, Ohio, Mohican Creek below Lyon's Falls 70 feet below Conglomerate I. Bought of W. Cooper, Granville, Ohio. November, 1888. Waverly Series=Ohio Black Shale to top of Cuyahoga Shales"; Hall Collection.

Remarks: UC 35564 is one of the specimens originally figured by Herrick, 1888.

Terebratula subtilita Hall, 1852

Referred specimen: UC 12327.
Hall, 1856, p. 101, pl. 2, figs. 3–5.

=*Seminula argentea* (Shepard, 1838)
S. Weller, 1898, pp. 560–562.

Carboniferous.

Pecas Village, New Mexico; Hall Collection.

Remarks: *S. argentea*=*Composita argentea* (Shepard, 1838)
Boucot, Johnson and Staton *in* Moore, 1965, p. 662.

Tetracamera missouriensis S. Weller, 1914

Holotype, not designated, to be selected from UC 14280.

Referred specimens: UC 12480, six specimens.
S. Weller, 1914, pp. 216–218, pl. 28, figs. 35–39.

Mississippian, New Bloomfield Chert.

Callaway County, Missouri; Greger Collection.

Tetracamera neogenes Girty, 1929

Referred specimen: UC 47220, a pedicle valve.
Easton, 1942, pl. 6, figs. 12, 13.

Mississippian, Pitkin Formation.

Arkansas.

Tetracamera subcuneata (Hall, 1856)

Referred specimens: UC 7724, 18 specimens.
S. Weller, 1914, pp. 214–215, pl. 28, figs. 13–24.
McLaren *in* Moore, 1965, p. 588, text figs. 466,1a–c.

Mississippian, Salem Limestone.

Salem, Indiana; Gurley Collection.

See also: *Camarophoria subcuneata* (Hall, 1856)

Tetracamera subtrigona (Meek and Worthen, 1860)

= *Rotaia subtrigona* (Meek and Worthen, 1860)
McLaren *in* Moore, 1965, pp. 588–589, text figs. 466,3a–c.

Referred specimen: UC 320, a brachial valve.
S. Weller, 1914, pp. 218–221, pl. 29, fig. 12.

Mississippian, Residuary Chert.

Springfield, Missouri; S. Weller Collection.

Referred specimen: UC 8683.
S. Weller, 1914, pp. 218–221, pl. 29, figs. 1–5.

Mississippian, Keokuk Limestone.

Warsaw, Illinois.

Referred specimen: UC 8684.
S. Weller, 1914, pp. 218–221, pl. 29, fig. 11.

Mississippian, Burlington Chert.

Louisiana, Missouri; Gurley Collection.

Referred specimens: UC 13927, four specimens.
S. Weller, 1914, pp. 218–221, pl. 29, fig. 13.

Mississippian, Residual Chert.

Aurora, Missouri; Sampson Collection.

See also: *Camarophoria subtrigona* (Meek and Worthen, 1860).

Torynifer pseudolineatus (Hall, 1858)

See: *Reticularia pseudolineata* (Hall, 1858).

Torynifer setigera (Hall, 1858)

See: *Spirifer setigerus* Hall, 1858.

Trematis fragilis Ulrich, 1889

See: *Trematis punctostriata* Hall and Whitfield, 1875.

Trematis punctostriata Hall and Whitfield, 1875

Referred specimen: UC 102, a pedicle valve.
Hall and Whitfield, 1875b, pp. 70–71, pl. 1, fig. 9.

=*Trematis fragilis* Ulrich, 1889
Foerste, 1910, pp. 38–39, pl. 5, fig. 2.
Foerste, 1916, pp. 311–312, pl. 3, fig. 12.

Ordovician, Upper Trenton Limestone.

Cincinnati, Ohio; James Collection.

Trematospira camura (Hall, 1852)

Referred specimen: UC 12376.
Hall, 1859, pp. 212–213.
Hall, 1861, pl. 28A, figs. 1a, b.
Hall and Clarke, 1893, p. 126.
Hall and Clarke, 1895a, pl. 49, fig. 2.
Cooper *in* Shimer and Shrock, 1944, p. 361, pl. 141, fig. 19.

Silurian, Niagaran.

Lockport, New York; Hall Collection.

Remarks: Boucot, Johnson and Staton, 1964, p. 814, state, "Among the species rejected from *Trematospira* that cannot now be placed with certainty in any genus is *Trematospira camura* Hall (Hall and Clarke, 1893, pl. 49, figs. 2–4)."

Trematospira costata Hall, 1859

Referred specimen: UC 12378.
Hall and Clarke, 1893, p. 126.
Hall and Clarke, 1894, pl. 38, fig. 12.
Hall and Clarke, 1895a, pl. 49, figs. 19, 20.

=*Leptospira costata* (Hall, 1859)
Boucot, Johnson and Staton, 1964, p. 814.

Devonian, Lower Helderberg Group.

Albany County, New York [catalogue]; the Helderbergs, New York [published]; Hall Collection.

Trematospira equistriata Hall and Clarke, 1895

Holotype: UC 12379.
Hall and Clarke, 1895a, pl. 49, fig. 47.

Devonian, Lower Helderberg Group.

Figured specimen: Hall locality 220, "from Cumberland, Mary-

land or adjacent parts of Virginia. Andrews and parts of Williams collections."

Published locality, Cumberland, Maryland; Hall Collection.

Unfigured specimen: UC 12379A, Hall locality 677, "2 miles north of Clarksville, New York coll. James Hall and C. E. Beecher and Matt and Jake Vondeloo—Mr. Beecher carried away all the good ones."

Referred specimen: UC 29143.
Tansey *in* Branson, 1922, pp. 201–202, pl. 52, figs. 19, 20.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Trematospira multistriata (Hall, 1857)

Referred specimens: UC 27496, two single valves.
Stewart *in* Branson, 1922, p. 248, pl. 65, figs. 4, 5.

Devonian, Upper Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Trematospira? quadriplicata S. A. Miller, 1875

Holotype: UC 8836.
S. A. Miller, 1875, pp. 60–61, text figs. 6, 7.

= *Rhynchotreta quadriplicata* (S. A. Miller, 1875)
S. A. Miller, 1889, p. 370, text fig. 608.

= *Rhynchotrema inaequivalve* (Castelnau, 1843)
Foerste, 1909b, pp. 314–315, pl. 7, figs. 10A–C.

= *Rhynchotrema increbescens* (Hall, 1847)
Bassler, 1915, p. 1125.

Ordovician, Trenton Limestone.

Paris, Kentucky; Faber Collection.

Trematospira simplex Hall, 1859

Referred specimen: UC 12377.
Hall and Clarke, 1893, p. 126.
Hall and Clarke, 1894, pl. 38, figs. 10, 11.
Hall and Clarke, 1895a, pl. 49, figs. 17, 18.

=*Leptospira simplex* (Hall, 1859)
Boucot, Johnson and Staton, 1964, p. 814.

Devonian, Lower Helderberg Group.

Decatur County, Tennessee; Hall Collection.

Trigeria gaudryi (Oehlert, 1877)

Referred specimen: UC 12464.

Hall and Clarke, 1893, p. 273.

Hall and Clarke, 1895a, pl. 76, figs. 6, 7.

Devonian, Oriskany Sandstone.

Hall locality 256, "Cumberland, Maryland. Andrews collection."; Hall Collection.

Remarks: *Trigeria* Bayle, 1878= *Retzia* King, 1850

Boucot, Johnson and Staton *in* Moore, 1965, p. 649.

Trimerella ohioensis Meek, 1871

Referred specimens: UC 33515, two specimens.

Hall and Clarke, 1892a, pp. 34–36, pl. 4A, fig. 3.

Hall and Clarke, 1892b, pl. 2, fig. 11.

Cooper *in* Shimer and Shrock, 1944, p. 287, pl. 108, fig. 46.

Silurian, Niagaran.

Port Byron, Illinois; Hall Collection.

Remarks: UC 33515, the original specimen, is not figured; UC 12949, the gutta-percha impression, is figured.

Triplesia sp.

Referred specimens: UC 29219, a pedicle and a brachial valve.

Culbertson, 1926, pp. 114–115, pl. on p. 113, figs. 6, 7.

Silurian, Brassfield Limestone.

Hanover, Indiana; Culbertson, donor.

Tylothyris clarksvillensis (Winchell, 1865)

See: *Delthyris clarksvillensis* (Winchell, 1865).
Delthyris missouriensis S. Weller, 1906 [not Tansey, 1922].

Tylothyris missouriensis (S. Weller, 1906)

See: *Delthyris missouriensis* S. Weller, 1906 [not Tansey, 1922].
Delthyris suborbicularis S. Weller, 1906.

Uncinulus abruptus (Hall, 1857)

Referred specimen: UC 12408, the crura.

Hall and Clarke, 1893, p. 199.
Hall and Clarke, 1895a, pl. 58, fig. 16.
Devonian, New Scotland Beds.
Albany County, New York; Hall Collection.

Uncinulus mutabilis (Hall, 1857)
Referred specimen: UC 10436, a pedicle valve.
S. Weller, 1903, p. 283, pl. 29, fig. 5.
Devonian, Coeyman's Limestone.
S. Weller, 1903 locality 2A[27], Nearpass Quarry, New Jersey; New Jersey Collection.

Referred specimens: UC 12410, two single valves.
Hall and Clarke, 1893, p. 199.
Hall and Clarke, 1895a, pl. 58, figs. 24, 25.
Grabau and Shimer, 1909, p. 391, text fig. 361.
Devonian, New Scotland Beds.
Albany County, New York; Hall Collection.

Referred specimens: UC 21049, four specimens.
Tansey *in* Branson, 1922, pp. 193–194, pl. 49, figs. 20–22.

Referred specimens: UC 21089, two specimens.
Tansey *in* Branson, 1922, pp. 193–194, pl. 49, figs. 17–19.
Devonian, Bailey Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Uncinulus nucleolatus (Hall, 1857)
Referred specimens: UC 21085, three specimens.
Tansey *in* Branson, 1922, p. 193, pl. 49, figs. 5, 16.

Referred specimen: UC 21086.
Tansey *in* Branson, 1922, p. 193, pl. 49, fig. 15.

Referred specimens: UC 21087, five specimens.
Tansey *in* Branson, 1922, p. 193, pl. 49, figs. 3, 4, 6–14.
Devonian, Bailey Limestone.
Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Uncinulus parvus Stewart, 1922
Holotype: original designation UC 27462 [not UC 27463].

Stewart *in* Branson, 1922, p. 239, pl. 63, figs. 11, 12.

Referred specimen: UC 27463.
Stewart *in* Branson, 1922, p. 239.

Devonian, Little Saline Limestone, Upper Beds.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Uncinulus salinensis Stewart, 1922

Holotype: original designation UC 27464A.
Stewart *in* Branson, 1922, pp. 239–240, pl. 63, figs. 8, 9.

Referred specimen: UC 27464B.
Stewart *in* Branson, 1922, pp. 239–240, pl. 63, fig. 10.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Uncinulus subpyramidatus Tansey, 1922

Holotype, not designated, to be selected from UC 21048, UC 21090.

Referred specimens: UC 21048, three specimens.
Tansey *in* Branson, 1922, p. 194, pl. 49, figs. 33, 34.

Referred specimens: UC 21090, three specimens.
Tansey *in* Branson, 1922, p. 194, pl. 49, figs. 23–32.

Devonian, Bailey Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Uncinulus welleri Stewart, 1922

Holotype: original designation UC 27465A.
Stewart *in* Branson, 1922, p. 240, pl. 63, fig. 13.

Referred specimen: UC 27465B.
Stewart *in* Branson, 1922, p. 240, pl. 63, fig. 14.

Devonian, Little Saline Limestone.

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Valcourea loricula (Hall and Clarke, 1892)

See: *Orthis* (*Plaesiomys*) *loricula* Hall and Clarke, 1892.

Virgiana barrandei (Billings, 1857)
See: *Barrandella barrandii* (Billings, 1857).

Virgiana decussata (Whiteaves, 1891)
See: *Conchidium decussatum* (Whiteaves, 1891).

Whitfieldella hyale (Billings, 1862)
Referred specimen: UC 11969.
Hall and Clarke, 1893, pp. 60, 79.
=*Charionella hyale* (Billings, 1862)
Hall and Clarke, 1895A, pl. 42, figs. 20, 21.
Silurian, Guelph Limestone.
Guelph, Ontario, Canada.

Whitfieldella nitida (Hall, 1843)
Referred specimen: UC 11963.
Hall and Clarke, 1893, p. 59.
Hall and Clarke, 1895a, pl. 40, figs. 12, 13.
Silurian, Niagaran.
Louisville, Kentucky; Hall Collection.

Whitfieldella nucleolata (Hall, 1852)
Referred specimens: UC 10411, two specimens.
S. Weller, 1903, p. 241, pl. 21, figs. 38–40.
Silurian, Decker Ferry.
S. Weller, 1903 locality $2A^{12}$, William Nearpass Quarry, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Whitfieldella cf. **oblata** (Hall, 1852)
Referred specimen: UC 29216, a pedicle valve.
Culbertson, 1926, p. 115, pl. on p. 113, fig. 8.
Silurian, Brassfield Limestone.
Hanover, Indiana; Culbertson, donor.

Wilsonia globosa S. Weller, 1903
Referred specimens: UC 10408, four specimens.
S. Weller, 1903, pp. 235–236, pl. 21, figs. 16–22.
Silurian, Decker Ferry.

S. Weller, 1903 locality 2A[12], William Nearpass Quarry, two miles south of Tri-States, New York, in New Jersey; New Jersey Collection.

Wilsonia grosvenori (Hall, 1856)

Referred specimens: UC 13932, 13 specimens.
S. Weller, 1910, pp. 510–511, text fig. 11.

=*Camarotoechia grosvenori* (Hall, 1856)
S. Weller, 1914, pp. 183–185, text fig. 6, pl. 24, figs. 61–64.

Mississippi, Salem Limestone.

Stinesville, Indiana; Weller Collection.

Wilsonia saffordi (Hall, 1860)

Referred specimens: UC 12406, three specimens.
Hall and Clarke, 1893, p. 198.
Hall and Clarke, 1895a, pl. 58, figs. 5–11.

Silurian, Niagaran.

Perry County, Tennessee; Hall Collection.

Wilsonia wadei Dunbar, 1919

=*Obturamentella wadei* (Dunbar, 1919)
Amsden *in* Amsden and Boucot, 1958, pp. 99–103.

Referred specimens: UC 21046, five specimens.
Tansey *in* Branson, 1922, p. 195, pl. 49, figs. 47–48, pl. 50, figs. 1–4.

Referred specimens: UC 21088, three specimens.
Tansey *in* Branson, p. 195, pl. 49, figs. 35–46.

Devonian, Bailey Limestone (Chert).

Little Saline Creek in Missouri; collected by Univ. Chicago Ste. Genevieve County field classes.

Zygospira calhounensis Fenton and Fenton, 1922

Referred specimens: UC 27458, six specimens.
Fenton and Fenton, 1922, pp. 76–77.

Ordovician, Kimmswick Limestone.

Near Batchtown, Illinois; collected by Univ. Chicago Calhoun County Expedition.

Zygospira cincinnatiensis Meek, 1873

Holotype, not designated, to be selected from UC 164.

Referred specimens: UC 164, 16 specimens.
Meek, 1873, p. 126, pl. 11, figs. 5a–c.
Foerste, 1910, pp. 30–31, pl. 6, figs. 16a, 16b.

Ordovician, Cincinnatian, Fairmount Beds.

Cincinnati, Ohio; James Collection.

Referred specimen: UC 12391.
Hall and Clarke, 1895a, pl. 54, figs. 13, 14.

Ordovician, Cincinnatian Series.

Cincinnati, Ohio; Hall Collection.

Zygospira kentuckiensis James, 1878

Referred specimen: UC 12390.
Hall and Clarke, 1895a, pl. 54, figs. 11, 15, 16.

Ordovician, Cincinnatian Series.

Oldham County, Kentucky; Hall Collection.

See also: *Zygospira modesta* var. *kentuckiensis* James, 1878.

Zygospira maynei Roy, 1941

Holotype: original designation P 28280.
Roy, 1941, pp. 102–103, text fig. 69a–e.

Referred specimens: P 28281, five specimens.
Roy, 1941, pp. 102–103.

Ordovician, Richmond.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; Roy Collection.

Zygospira modesta var. **kentuckiensis** James, 1878

Holotype, not designated, to be selected from UC 96.

Referred specimens: UC 96, six specimens.
James, 1878, p. 7.

=*Zygospira kentuckiensis* James, 1878
Bassler, 1915, p. 1341.

Ordovician, Cincinnatian.

Jefferson County, 18 miles east of Louisville, Kentucky; James Collection.

Zygospira nicoletti (Winchell and Schuchert, 1892)

Referred specimen: UC 10311.
S. Weller, 1903, pp. 161–162, pl. 10, figs. 27–30.

Ordovician, Trenton Limestone.

S. Weller, 1903 locality 79A, seven-eighths mile a little west of north from Beaver Run, New Jersey; New Jersey Collection.

Zygospira (Orthonomaea) erratica (Hall, 1847)

Referred specimen: UC 12392, a pedicle valve.
Hall and Clarke, 1893, pp. 157–159.
Hall and Clarke, 1895a, pl. 54, fig. 21.

Ordovician, Cincinnatian.

Hall locality 150, "Hamilton, Ontario. September 2, 1889, from Mr. Turnbull"; Hall Collection.

Remarks: *Z. erratica=Catazyga erratica* (Hall, 1847)
Boucot, Johnson and Staton *in* Moore, 1965, p. 634.

Zygospira recurvirostra (Hall, 1847)

Referred specimen: UC 10309.
S. Weller, 1903, p. 161, pl. 10, figs. 23–26.

Ordovician, Trenton Limestone.

S. Weller 1903 locality 174A, Jacksonburg, New Jersey; New Jersey Collection.

Referred specimens: UC 12389, two specimens.
Hall and Clarke, 1895a, pl. 54, figs. 1–3.

Ordovician, Trenton Limestone.

Middleville, New York; Hall Collection.

Zygospira variabilis Fenton and Fenton, 1922

Holotype: original designation UC 25861.
Fenton and Fenton, 1922, pp. 75–76, pl. 2, figs. 7–9.

Referred specimens: UC 25864, eight specimens.
Fenton and Fenton, 1922, pp. 75–76.

Ordovician, Plattin.

South Becket Hill, Ste. Genevieve County, Missouri; Fenton Collection.

CATALOGUE OF CASTS OF TYPE AND REFERRED SPECIMENS

Antiquatonia costata (Sowerby, 1827)

See: *Productus costatus* var. Sowerby, 1827.

Athyris papilioniformis McChesney, 1865

See: *Athyris spiriferoides* McChesney, 1860 [not of Eaton, 1831].

Athyris spiriferoides McChesney, 1860 [not of Eaton, 1831]

Holotype: UC 13232.

McChesney, 1860, p. [46] 64.

=*Athyris papilioniformis* McChesney, 1865

McChesney, 1865, pl. 6, figs. 4a–c.

S. Weller, 1914, p. 468, pl. 78, figs. 6–8.

=*Athyris ? papilioniformis* McChesney, 1865.

McChesney, 1868, p. 33, pl. 6, figs. 4a–c.

Mississippian, Chester Group.

Fountain Bluff, Illinois; Hall Collection.

Atrypa devoniana Webster, 1921

Referred specimens: UC 26118, six single valves in one plaster cast.

Webster, 1921, p. 19.

Fenton and Fenton, 1924, pp. 134–136.

Devonian, Hackberry Stage, Cerro Gordo Substage.

Rockford, Iowa; Webster Collection.

Referred specimens: UC 26119, six single valves in one plaster cast.

Webster, 1921, p. 19.

Fenton and Fenton, 1924, pp. 134–136.

Devonian, Hackberry Stage, Cerro Gordo Substage.

Hackberry Grove, Iowa; Webster Collection.

Atrypa (Goniocoelia) uniangulata [sic] Conrad, 1841
Referred specimen: UC 23330.
Hall, 1861, p. 101.
= *Meristella*? *unisulcata* (Conrad, 1841)
Hall, 1862, pl. 2, figs. 17, 20–23.
= *Meristella* (?*Pentagonia*) *unisulcata* (Conrad, 1841)
Hall, 1867, pp. 309–311, pl. 50, figs. 25–29.
= *Pentagonia unisulcata* (Conrad, 1841)
Hall and Clarke, 1893, pp. 80–81.
Hall and Clarke, 1894, pp. 775–776, pl. 34, figs. 15–17.
Hall and Clarke, 1895a, pl. 42, figs. 22–24.
Grabau and Shimer, 1909, p. 360, text fig. 475.
Boucot, Johnson and Staton *in* Moore, 1965, p. 656, text figs. 533,2a–c.
Devonian, Onondagan.
Western New York; Hall Collection.

Atrypa hystrix Hall, 1843
Referred specimen: UC 14811.
Hall, 1843, p. 272, text fig. 124, 2; and Table Organic Remains fig. 65.2.
Hall, 1867, p. 326, pl. 53A, fig. 17.
Devonian, Chemung Formation.
Bath, New York; Hall Collection.

Atrypa hystrix elongata Webster, 1888
Holotype: UC 26122.
Webster, 1888, p. 1104.
= *Atrypa rockfordensis elongata* Webster, 1888
Fenton and Fenton, 1924, pp. 144–145, pl. 32, figs. 5–7.
Devonian, Hackberry Stage, *Spirifer* Zone.
Rockford, Iowa; Webster Collection.

Atrypa lineata inflata Webster, 1921
Referred specimens: UC 26129, three single valves.
Webster, 1921, p. 19.
Devonian, Cedar Valley, Shell Rock Group.
Near Charles City, Iowa.

Atrypa rockfordensis elongata Webster, 1888

See: *Atrypa hystrix elongata* Webster, 1888
Atrypa subhannibalensis Webster, 1921

Atrypa subhannibalensis Webster, 1921

Holotype: UC 26120.
Webster, 1921, p. 18.
Fenton and Fenton, 1924, pp. 145–146, pl. 27, figs. 1, 2.
Fenton and Fenton, 1935, p. 384.

Devonian, Hackberry Stage, Owen beds.

Owen's Grove, Cerro Gordo County, Iowa; Webster Collection.

Referred specimen: UC 26121.
Webster, 1921, p. 18.

=*Atrypa rockfordensis elongata* Webster, 1888
Fenton and Fenton, 1924, pp. 145–146, pl. 27, fig. 3.
Fenton and Fenton, 1932, pp. 213–214, pl. 23, fig. 1.
Fenton and Fenton, 1935, p. 384.

Devonian, Hackberry Stage, *Spirifer* Zone.

Hackberry Grove, Iowa; Webster Collection.

Atrypa waterlooensis canadensis Webster, 1921

Holotype: UC 26128, two single valves.
Webster, 1921, p. 17.
Fenton and Fenton, 1935, p. 373, pl. 40, fig. 3.

Referred specimens: UC 26128A, two single valves.
Webster, 1921, p. 17.
Fenton and Fenton, 1932, p. 218, pl. 22, fig. 10.
Fenton and Fenton, 1935, p. 373, pl. 40, figs. 1, 2.

Devonian.

Below Alexandria Falls, Hay River, Northwest Territory, Canada; Webster Collection.

Austinella(?) subcircularis Roy, 1941

Holotype: P 28262.
Roy, 1941, pp. 90–91, text figs. 53a–d.

Referred specimen: P 28262A.
Roy, 1941, pp. 90–91, text figs. 53e–g.

Ordovician, Richmond Group.

Silliman's Fossil Mount, Frobisher Bay, Baffin Land; collected by R. W. Porter.

Remarks: Original specimens Amer. Mus. Nat. Hist. no. 4797.

Brachythyris subcardiiformis (Hall, 1858)

Holotype: UC 14213.

See: *Spirifer subcardiiformis* Hall, 1858.

Brachythyris suborbicularis (Hall, 1858)

Holotype: UC 14217.

See: *Spirifer suborbicularis* Hall, 1858.

Calvinaria ambigua (Calvin, 1878)

See: *Rhynchonella ambigua* Calvin, 1878.

Camarophoria explanata (McChesney, 1860)

See: *Rhynchonella explanata* McChesney, 1860.

See also: *Camarophoria explanata* (McChesney, 1860) in catalogue of specimens.

Camarotoechia (Plethorhyncha) barrandii (Hall, 1857)

See: *Rhynchonella barrandi* Hall, 1857.

Chonostrophia complanata (Hall, 1857)

Referred specimen: UC 20810, a pedicle valve. Hall and Clarke, 1892a, pp. 310–311, pl. 16, fig. 29.

Devonian, Oriskany Sandstone.

Albany County, New York; Hall Collection.

Remarks: *C. complanata=Chonostrophiella complanata* (Hall, 1857) Boucot and Amsden, 1964, pp. 881–882.

Chonostrophiella complanata (Hall, 1857)

See: *Chonostrophia complanata* (Hall, 1857).

Coledium explanatum (McChesney, 1860)

See: *Rhynchonella explanata* McChesney, 1860.

Conchidium nysius (Hall and Whitfield, 1872)

See: *Pentamerus nysius* var. *crassicosta* Hall and Whitfield, 1872.

Costistricklandia gaspéensis (Billings, 1859)
See: *Stricklandia gaspéensis* Billings, 1859.

Cryptonella planirostra (Hall, 1860)
Referred specimen: UC 23329.
Hall, 1867, pp. 395–396, pl. 61, figs. 19–21 [not 20–22].
Hall and Clarke, 1893, pp. 285–295.
Hall and Clarke, 1894, pp. 860–861, pl. 52, figs. 22–23.
Hall and Clarke, 1895a, pl. 80, figs. 6, 7.
Grabau and Shimer, 1909, p. 301, text figs. 375a, 375b.
Devonian, Hamilton Group.
Moscow, Livingston County, New York; Hall Collection.

Cyrtospirifer disjunctus (Sowerby, 1840)
See: *Spirifer disjunctus* Sowerby, 1840.

Derbya crassa (Meek and Hayden, 1858)
See: *Orthis lasallensis* McChesney, 1860.
Orthis pratteni McChesney, 1860.

Derbya lasallensis (McChesney, 1860)
See: *Orthis lasallensis* McChesney, 1860.

Derbya pratteni (McChesney, 1860)
See: *Orthis pratteni* McChesney, 1860.

Derbya robusta (Hall, 1858)
See: *Orthis robusta* Hall, 1858.

Dielasma inornata (McChesney, 1860)
See: *Terebratula inornata* McChesney, 1860.

Dimegelasma neglecta (Hall, 1858)
See: *Spirifer neglectus* Hall, 1858.

Dinobolus conradi (Hall, 1868)
Referred specimens: UC 612, two specimens.
Hall and Clarke, 1892a, pp. 36–40, pl. 4B, figs. 16, 21.
Cooper *in* Shimer and Shrock, 1944, p. 283, pl. 107, fig. 23.
Silurian, Niagaran.

Near LeClaire, Iowa; Hall Collection.

Referred specimen: UC 625.
Hall and Clarke, 1892a, pp. 36–40, pl. 4B, fig. 13.
Silurian, Niagaran.
Grafton, Wisconsin; Hall Collection.
See also: *Obolus conradi* Hall, 1868.

Discina ampla Hall, 1861
See: *Discina grandis* Hall, 1859.

Discina grandis Hall, 1859 [not Vanuxem, 1842]
Holotype: UC 590.
Hall, 1859, pp. 406–407.
Hall, 1861, pl. 92, figs. 1a–d.
=*Discina ampla* Hall, 1861
Hall, 1861, in corrigenda.
=*Orbiculoidea ampla* (Hall, 1861)
Hall and Clarke, 1892a, p. 127.
Devonian, Oriskany Sandstone.
Albany County, New York; Hall Collection.

Eoorthis newtonensis (S. Weller, 1903)
See: *Orthis newtonensis* S. Weller, 1903.

Hemipronites lasallensis (McChesney, 1860)
See: *Orthis lasallensis* McChesney, 1860.

Juresania wilberanus (McChesney, 1860)
See: *Productus wilberanus* McChesney, 1860.

Leptostrophia magniventer (Hall, 1857)
See: *Stropheodonta* (*Leptostrophia*) *magniventra* (Hall, 1857).

Leptostrophia magniventra (Hall, 1857)
See: *Strophomena* (*Strophodonta*) *magniventra* Hall, 1857.

Lingula cuneata Conrad, 1839
Referred specimen: UC 564, three specimens.

Hall, 1843, p. 52, text fig. 10, illus. no. 3.
Hall, 1852, pp. 8–9, pl. 4, fig. 2E.
Lesley, 1889, p. 343, fig. on p. 343.

Silurian, Medina Group.

Near Lockport, New York; Hall Collection.

Lingulasma galenensis Winchell and Schuchert, 1892

Referred specimen: UC 10234, a brachial valve.
S. Weller, 1903, pp. 145–146, pl. 9, figs. 10, 11.

Ordovician, Trenton Limestone.

S. Weller, 1903 locality 136B, north end of Drake's Pond, one mile southeast of Newton, New Jersey; New Jersey Collection.

Lingulasma schucherti Ulrich, 1889

Holotype: UC 54053, a pedicle valve.
Ulrich, 1889, pp. 389–391, fig. 5a (p. 378).
Hall and Clarke, 1892a, pp. 24–25, pl. 2, fig. 20.
Hall and Clarke, 1892b, pl. 1, fig. 22.

=*Lingulelasma schucherti* (Ulrich, 1889)
S. A. Miller, 1889, p. 351, text fig. 576.

Referred specimen: UC 54054, a pedicle valve.
Ulrich, 1889, pp. 389–391.

=*Lingulelasma schucherti* (Ulrich, 1889)
S. A. Miller, 1889, p. 351.

Ordovician, Hudson River Group (Ulrich, 1889).

Lower Silurian (Hall and Clarke, 1892).

Wilmington, Illinois; Hall Collection.

Remarks: UC 54054 may have been figured by Hall and Clarke, 1892, pl. 2, but the specimen cannot be matched with the drawing.

Lingulelasma schucherti (Ulrich, 1889)

See: *Lingulasma schucherti* Ulrich, 1889.

Linoproductus ovatus (Hall, 1858)

See: *Productus ovatus* Hall, 1858.

Meristella (? Pentagonia) unisulcata (Conrad, 1841)

See: *Atrypa (Goniocoelia) uniangulata* [sic] Conrad, 1841.

Meristella? unisulcata (Conrad, 1841)

See: *Atrypa* (*Goniocoelia*) *uniangulata* [sic] Conrad, 1841.

Monomerella greenii Hall and Clarke, 1892

Referred specimens: UC 12960, four specimens.

Hall and Clarke, 1892a, pp. 42 and 174, pl. 4D, figs. 5, 7, 9, 10.
Hall and Clarke, 1895b, p. 328, pl. 1, figs. 9, 11, 12, 14.
Hall and Clarke, 1895c, p. 328, pl. 1, figs. 9, 11, 12, 14.

Silurian, Niagaran.

Grafton, Wisconsin; Hall Collection.

Remarks: UC 12960 consists of casts of the original specimens used by Hall and Clarke, 1892.

Monomerella kingi Hall and Clarke, 1892

Referred specimens: UC 12959, two specimens.

Hall and Clarke, 1892a, pp. 42 and 174, pl. 4D, figs. 1, 2.
Hall and Clarke, 1895b, p. 329, pl. 2, figs. 1, 2.
Hall and Clarke, 1895c, p. 329, pl. 2, figs. 1, 2.

Silurian, Niagaran.

Hawthorn, Illinois; Hall Collection.

Remarks: UC 12959 consists of casts of the original specimens used by Hall and Clarke, 1892.

Monomerella ortoni Hall and Clarke, 1892.

Holotype: UC 12958, a pedicle valve.

Hall and Clarke, 1892a, pp. 43 and 175, pl. 4c, fig. 15.
Hall and Clarke, 1895b, p. 330, pl. 2, fig. 5.
Hall and Clarke, 1895c, p. 330, pl. 2, fig. 5.

Silurian, Niagaran.

Rising Sun, Ohio; Hall Collection.

Monomerella prisca Billings, 1871

Referred specimens: UC 12957, a brachial and a pedicle valve.

Hall and Clarke, 1892a, pl. 4C, figs. 6, 7, 12.
Rowell *in* Moore, 1965, p. 274, text fig. 169,4a–4b.

Silurian, Niagaran.

Hawthorn, Illinois (now Dolese-Shepard Quarry in Chicago, Illinois); Hall Collection.

Newberria claypolii Hall, 1891

Referred specimens: UC 12468, two specimens.
Hall, 1891, p. 97, pl. 5, figs. 2?, 3, 5, 8.
Hall and Clarke, 1893, pp. 263–264.
Hall and Clarke, 1894, pl. 51, figs. 16, 18.
Hall and Clarke, 1895a, pl. 78, figs. 2, 5, 8.

=*Subrensselandia claypolii* (Hall, 1891)
Cloud, 1942, pp. 92–94.

Devonian, Hamilton.

Perry County, Pennsylvania; Hall Collection.

Remarks: UC 12468 includes two specimens and two gutta-percha casts which were originally figured by Hall, 1891.

Obolus conradi Hall, 1868

Referred specimens: UC 54061, four specimens.
Hall, 1868, pp. 375–376, pl. 25, figs. 1, 3.

=*Dinobolus conradi* (Hall, 1868)
Hall and Clarke, 1892a, pl. 4B, fig. 20.

Silurian, Niagara Group.

Leclaire, Iowa, or Racine, Wisconsin; Hall Collection.

Remarks: Gutta-percha casts UC 54061 do not correspond exactly to Hall's 1868, illustrations.

Orbiculoidea ampla (Hall, 1861)

See: *Discina grandis* Hall, 1859.

Orthis kaskaskiensis McChesney, 1860

Referred specimen: UC 53082.
McChesney, 1860, p. 31.

=*Orthotetes kaskaskiensis* (McChesney, 1860).
S. Weller, 1914, pp. 77–78.

Referred specimen: UC 53083.
McChesney, 1860, p. 31.

=*Orthotetes kaskaskiensis* (McChesney, 1860)
S. Weller, 1914, pp. 77–78.

Mississippian, Kaskaskia Division of the Carboniferous Limestone.

Kaskaskia or Chester, Illinois; Hall Collection.

Remarks: UC 53082 and UC 53083 are casts of the original specimens used by McChesney, 1860.

Orthis lasallensis McChesney, 1860

Holotype: UC 13236.
McChesney, 1860, p. 32.
McChesney, 1865, pl. 1, figs. 6a–b.

= *Hemipronites lasallensis* (McChesney, 1860)
McChesney, 1868, p. 28, pl. 1, figs. 6a–b.

= *Derbya crassa* (Meek and Hayden, 1858)
S. Weller, 1898, p. 217.

= *Derbya lasallensis* (McChesney, 1860) museum catalogue

Pennsylvanian.

La Salle, Illinois; Hall Collection.

Orthis newtonensis S. Weller, 1903

Holotype, not designated, to be selected from UC 10205.

Referred specimens: UC 10205, three pedicle valves.
S. Weller, 1903, pp. 113–114, pl. 1, figs. 3–5.

= *Eoorthis newtonensis* (S. Weller, 1903)
Walcott, 1912, p. 784.

Cambrian, Kittatinny Limestone.

S. Weller, 1903 locality 136A, Newton, New Jersey; New Jersey Collection.

Orthis pratteni McChesney, 1860

Holotype, not designated, to be selected from UC 13235.

Referred specimens: UC 13235, two specimens.
McChesney, 1860, pp. 33–34.

= *Derbya crassa* (Meek and Hayden, 1858)
S. Weller, 1898, p. 217.

= *Schuchertella pratteni* (McChesney, 1860)
Dunbar and Condra, 1932, pp. 117–121, pl. 15, figs. 1a–b.

= *Derbya pratteni* (McChesney, 1860) museum catalogue

Pennsylvanian.

Charbonier, Missouri; Hall Collection.

Orthis robusta Hall, 1858

Holotype: UC 15791.
Hall, 1858, pp. 713–714, pl. 28, figs. 5a–c, 4d [not 5d].

= *Streptorhynchus robustus* (Hall, 1858)

Hall, 1883a, pl. (10) 40, figs. 14 [not 17], 15.

=*Derbya robusta* (Hall, 1858)
Hall and Clarke, 1892a, p. 263, pl. 10, figs. 14 [not 17], 15.
Dunbar and Condra, 1932, pp. 112–114, pl. 14, figs. 15a–b.

=*Orthotetes robusta* (Hall, 1858)
Mather, 1915, pp. 146–147.

Mississippian.

St. Clair County, Illinois; Hall Collection.

Orthothetes inflatus (White and Whitfield, 1862)
See: *Streptorhynchus inflatus* White and Whitfield, 1862.

Orthothetes kaskaskiensis (McChesney, 1860)
See: *Orthis kaskaskiensis* McChesney, 1860.

Orthothetes robusta (Hall, 1858)
See: *Orthis robusta* Hall, 1858.

Ovatia ovata (Hall, 1858)
See: *Productus ovatus* Hall, 1858.

Pentagonia unisulcata (Conrad, 1841)
See: *Atrypa (Goniocoelia) uniangulata* [sic] Conrad, 1841.

Pentamerus cylindricus Hall and Whitfield, 1872
See: *Pentamerus oblongus* var. *cylindricus* Hall and Whitfield, 1872.

Pentamerus nysius var. **crassicosta** Hall and Whitfield, 1872
Referred specimen: UC 12439.
Hall and Whitfield, 1872, pp. 184–185.
Hall and Whitfield, 1875a, pl. 10, figs. 6, 7.

=*Conchidium nysius* (Hall and Whitfield, 1872)
Hall and Clarke, 1893, p. 235 (and footnote).
Hall and Clarke, 1895a, pl. 64, figs. 7, 8.

Silurian, Niagaran Group.

Near Louisville, Kentucky; Hall Collection.

Remarks: UC 12439 is one of the specimens originally figured by Hall and Whitfield, 1872. It is not known whether a holotype has been designated.

Pentamerus oblongus Sowerby, 1812
Referred specimen: UC 13120.
Hall, 1852, pp. 79–81, pl. 26, figs. 1a–d.
Silurian, Niagaran.
Springfield, Ohio; Hall Collection.

Pentamerus oblongus var. **cylindricus** Hall and Whitfield, 1872
Holotype: UC 12452.
Hall and Whitfield, 1872, p. 183.
Hall and Whitfield, 1875a, pl. 10, figs. 13, 14.
Hall and Clarke, 1895a, pl. 69, figs. 11, 12.
= *Pentamerus cylindricus* Hall and Whitfield, 1872
Schuchert and Cooper, 1932, p. 177.
Silurian, Niagaran.
Near Louisville, Kentucky; Hall Collection.

Plethorhyncha principale (Hall, 1857)
See: *Rhynchonella principalis* Hall, 1857.

Productella hallana (Walcott, 1882)
Referred specimen: UC 26126, original specimen in U. S. Nat. Mus.
Fenton and Fenton, 1924, p. 121, pl. 26, fig. 8.
Devonian.
Ouray, Nevada; Fenton Collection.

Productus costatus var. Sowerby, 1827
Referred specimen: UC 22182.
Hall, 1858, pp. 712–713, pl. 28, figs. 3a, 3b.
Hall, 1883a, pl. (19) 50, fig. 10.
Hall and Clarke, 1892a, pl. 19, fig. 10.
Pennsylvanian.
Winterset, Iowa; Hall Collection.
Remarks: *P. costatus*=*Antiquatonia costata* (Sowerby, 1827)
Muir-Wood and Cooper, 1960, pp. 270–271.

Productus ovatus Hall, 1858
Holotype: UC 14219, a pedicle valve.
Hall, 1858, p. 674, pl. 24, fig. 1.

=*Linoproductus ovatus* (Hall, 1858)
Sutton, 1938, p. 558.
=*Ovatia ovata* (Hall, 1858)
Muir-Wood and Cooper, 1960, pp. 311–314.
Mississippian, St. Louis Limestone.
St. Louis, Missouri; Hall Collection.

Productus wilberanus McChesney, 1860
Holotype: UC 13231.
McChesney, 1860, pp. 36–37.
McChesney, 1865, pl. 1, fig. 8.
McChesney, 1868, pp. 26–27, pl. 1, fig. 8.
=*Juresania wilberanus* (McChesney, 1860)
Dunbar and Condra, 1932, pp. 202–204, pl. 23, fig. 5.
Pennsylvanian.
Charbonier, Missouri; Hall Collection.

Pugnax eatoniaeformis (McChesney, 1860)
See: *Rhynchonella eatoniaeformis* McChesney, 1860.

Pugnax explanatus (McChesney, 1860)
See: *Rhynchonella explanata* McChesney, 1860.

Pugnax rockymontana (Marcou, 1858)
See: *Rhynchonella eatoniaeformis* McChesney, 1860.

Rensselaeria ovoides (Eaton, 1832)
Referred specimen: UC 12226, a single valve.
Hall and Clarke, 1895a, pl. 76, fig. 16.
Devonian, Oriskany Sandstone.
The Helderbergs, New York; Hall Collection.

Reticularia cooperensis (Swallow, 1860)
Holotype: UC 15915.
See: *Spirifer hirtus* White and Whitfield, 1862.

Reticularia pseudolineata (Hall, 1858)
See: *Spirifer pseudolineatus* Hall, 1858.

Rhinobolus davidsoni Hall and Clarke, 1892

Referred specimens: UC 12955, three specimens.
Hall and Clarke, 1892a, pp. 45 and 176, pl. 4B, figs. 10–12.
Hall and Clarke, 1895b, p. 331, pl. 2, figs. 6–8.
Hall and Clarke, 1895c, p. 331, pl. 2, figs. 6–8.

Silurian, Niagaran.

Grafton, Wisconsin; Hall Collection.

Remarks: UC 12955 consists of the original specimens used by Hall and Clarke, 1892.

Rhinobolus galtensis (Billings, 1865)

Referred specimen: UC 12953, a single valve.
Hall and Clarke, 1892a, p. 45, pl. 4B, fig. 8.

Silurian, Guelph Limestone.

Elora, Ontario, Canada; Hall Collection.

See also: *Rhynobolus galtensis* (Billings, 1865).

Rhynchonella ambigua Calvin, 1878

Holotype: UC 14813, original specimen at Iowa State University.
Calvin, 1878, pp. 729–730.

=*Calvinaria ambigua* (Calvin, 1878)
Stainbrook, 1945, pp. 44–45.

Devonian, Independence Shale.

Near Independence, Iowa.

Rhynchonella barrandi Hall, 1857

Referred specimen: UC 576, a ventral valve.
Hall, 1857, pp. 82–84.
Hall, 1859, p. 442.
Hall, 1861, pl. 103, fig. 3.

=*Camarotoechia* (*Plethorhyncha*) *barrandii* (Hall, 1857)
Hall and Clarke, 1893, p. 191.

Devonian, Oriskany Sandstone.

Albany or Schoharie Counties, New York; Hall Collection.

Remarks: UC 576 is a plaster cast of one of the specimens originally figured by Hall, 1861.

C. (*Plethorhyncha*) Hall and Clarke, 1893 = *Plethorhyncha* Hall and Clarke, 1893
Schuchert and LeVene, 1929, p. 99.

Rhynchonella carbonaria McChesney, 1860

Holotype: UC 13237.

McChesney, 1860, p. 51.

Pennsylvanian.

Near Farmington, Illinois; Hall Collection.

Remarks: *R. carbonaria*=*Rhynchopora illinoisense* Worthen, 1884 Mather, 1915, p. 177.

Rhynchonella eatoniaeformis McChesney, 1860

Holotype: UC 12418.

McChesney, 1860, p. 49.

=*Pugnax eatoniaeformis* (McChesney, 1860)

Hall and Clarke, 1893, p. 204.

Hall and Clarke, 1895a, pl. 60, figs. 11, 12.

=*Pugnax rockymontana* (Marcou, 1858)

S. Weller, 1898, p. 517.

Pennsylvanian.

Graysville, Illinois; Hall Collection.

Rhynchonella explanata McChesney, 1860

Holotype: UC 12424.

McChesney, 1860, p. 50.

McChesney, 1865, pl. 6, figs. 7a–c.

McChesney, 1868, p. 30, pl. 6, figs. 7a–c.

=*Pugnax explanatus* (McChesney, 1860)

Hall and Clarke, 1895a, pl. 60, figs. 43–45.

=*Camarophoria explanata* (McChesney, 1860)

Schuchert, 1897, p. 162.

S. Weller, 1914, pp. 173–175, pl. 23, figs. 46–47.

=*Stenoscisma explanata* (McChesney, 1860)

Cooper *in* Shimer and Shrock, 1944, p. 315, pl. 120, figs. 41–42.

=*Coledium explanatum* (McChesney, 1860)

Grant, 1965, pp. 114–119.

Mississippian, Chester Group.

Illinois: Hall Collection.

Rhynchonella principalis Hall, 1857

Holotype: UC 598, a ventral valve.

Hall, 1857, p. 84.
Hall, 1859, p. 443.
Hall, 1861, pl. 106, fig. 4.
= *Plethorhyncha principale* (Hall, 1857) museum catalogue
Devonian, Oriskany Sandstone.
Auburn, New York; Hall Collection.

Rhynchopora illinoisense Worthen, 1884
See: *Rhynchonella carbonaria* McChesney, 1860.

Rhynobolus galtensis (Billings, 1865)
Referred specimen: UC 12954, a single valve.
Whiteaves, 1884, pp. 7–8, pl. 8, fig. 3a.
Lesley, 1889, p. 908, middle fig.
= *Rhinobolus galtensis* (Billings, 1865)
Hall and Clarke, 1892a, p. 45, pl. 4B, fig. 9.
Silurian, Guelph Limestone.
Hespeler or Durham, Ontario, Canada; Hall Collection.

Schellwienella inflata (White and Whitfield, 1862)
See: *Streptorhynchus inflatus* White and Whitfield, 1862.

Schuchertella pratteni (McChesney, 1860)
See: *Orthis pratteni* McChesney, 1860.

Spirifer disjunctus Sowerby, 1840
Referred specimen: UC 20462, a pedicle valve.
Hall, 1867, pp. 243–247, pl. 41, fig. 19.
Devonian, Chemung.
Near Blossburg, Pennsylvania; Hall Collection.
Remarks: *S. disjunctus*=*Cyrtospirifer disjunctus* (Sowerby, 1840)
Cooper *in* Shimer and Shrock, 1944, p. 321.

Spirifer glaber Sowerby, 1844
Referred specimen: UC 17955.
Dana, 1849, pp. 683–684, pl. 1, figs. 6a, 6b.
Pennsylvanian, "sandstone below the coal."
Black Head, District of Illawarra, New South Wales, Australia; Hall Collection.

Referred specimen: UC 17956.
Dana, 1849, pp. 683–684, pl. 1, figs. 6c, 6d.
Pennsylvanian, "sandstone below the coal."
Harper's Hill, District of Illawarra, New South Wales, Australia; Hall Collection.

Spirifer grimesi Hall, 1858
Referred specimen: UC 13327.
Hall, 1858, pp. 604–605, pl. 53, figs. 1a, 1b.
Hall, 1883a, pl. (31) 56, fig. 16.
Hall and Clarke, 1893, p. 24.
Hall and Clarke, 1895a, pl. 30, fig. 16.
Mississippian, Burlington Limestone.
Burlington, Iowa; Hall Collection.
Remarks: UC 13327 is a plaster cast of one of the original specimens used by Hall, 1858.

Spirifer hirtus White and Whitfield, 1862
Holotype: UC 15915, original specimen University of Michigan no. 1367.
White and Whitfield, 1862, pp. 293–294.
= *Reticularia cooperensis* (Swallow, 1860)
S. Weller, 1914, pp. 428–429, pl. 75, figs. 21–25.
Mississippian, Kinderhook Bed no. 7.
Burlington, Iowa; Hall Collection.

Spirifer iowensis Owen, 1852
See: *Spirifer pennatus* Owen, 1852.

Spirifer ligus Owen, 1852
See: *Spirifer pennatus* Owen, 1852.

Spirifer logani Hall, 1858
Referred specimen: UC 14101.
Hall and Clarke, 1893, pp. 25, 38.
Hall and Clarke, 1894, pl. 26, fig. 10.
Hall and Clarke, 1895a, pl. 32, fig. 7.
Mississippian, Keokuk Limestone.
Near Nauvoo, Illinois; Hall Collection.

Spirifer neglectus Hall, 1858
Referred specimen: UC 14212.
Meek and Worthen, 1875, p. 523, pl. 30, fig. 2a.
=*Spiriferella neglecta* (Hall, 1858)
S. Weller, 1914, pp. 415–416, pl. 65, figs. 1–3.
Mississippian, Keokuk Limestone.
Keokuk, Iowa; Hall Collection.
Remarks: *S. neglectus=Dimegelasma neglecta* (Hall, 1858)
Cooper, 1942, p. 232.

Spirifer opimus Hall, 1858
See: *Spirifer subventricosa* McChesney, 1860.

Spirifer pennatus Owen, 1852
Referred specimen: UC 620.
Hall, 1858, pp. 510–511, pl. 5, figs. 1c–1e.
Hall, 1883a, pl. 52, fig. 19.
=*Spirifer ligus* Owen, 1852
Hall and Clarke, 1893, p. 31.
Hall and Clarke, 1895a, pl. 22, fig. 19.
=*Spirifer iowensis* Owen, 1852
Kindle, 1901, p. 647.
Grabau and Shimer, 1909, p. 329, text fig. 419.
Devonian, Hamilton.
Iowa; Hall Collection.

Spirifer pseudolineatus Hall, 1858
Holotype: UC 13971 [not UC 7555].
Hall, 1858, p. 645, pl. 20, fig. 4.
=*Reticularia pseudolineata* (Hall, 1858)
S. Weller, 1914, pp. 429–431, pl. 74, figs. 1–5.
Mississippian, Keokuk Limestone.
Keokuk, Iowa; Hall Collection.
Remarks: *S. pseudolineatus=Torynifer pseudolineatus* (Hall, 1858)
Cooper *in* Shimer and Shrock, 1944, p. 327.

Spirifer rarus Webster, 1906
Referred specimen: UC 26130.
Fenton and Fenton, 1924, p. 156, pl. 30, figs. 23, 24.

Devonian, Hackberry Stage, *Idiostroma* Zone.
Owen Grove, Iowa; Fenton Collection.

Spirifer rockymontanus Marcou, 1858
See: *Spirifer subventricosa* McChesney, 1860.

Spirifer subaequalis Hall, 1858
Holotype: UC 14773.
Hall, 1858, p. 663, pl. 23, figs. 9a–9c.
Hall and Clarke, 1893, p. 38.
Hall and Clarke, 1895b, pl. 27, fig. 2.
Hall and Clarke, 1895a, pl. 31, figs. 13, 14.
S. Weller, 1914, pp. 327–328, pl. 43, figs. 6–10.
Mississippian, Warsaw Limestone.
Warsaw, Illinois; Hall Collection.

Spirifer subcardiiformis Hall, 1858
Holotype: UC 14213.
Hall, 1858, p. 660, pl. 23, figs. 6a–b.
=*Brachythyris subcardiiformis* (Hall, 1858)
S. Weller, 1914, pp. 376–377, pl. 60, figs. 1–3.
Mississippian, Salem Limestone.
Above Alton, Illinois; Hall Collection.

Spirifer subelliptica McChesney, 1860
Holotype: UC 13239.
McChesney, 1860, p. 43.
=*Spiriferina subelliptica* (McChesney, 1860)
S. Weller, 1914, pp. 294–295, pl. 36, figs. 54–55.
Mississippian, Kinderhook.
Button Mould Knob, Kentucky; Hall Collection.

Spirifer suborbicularis Hall, 1858
Holotype: UC 14217.
Hall, 1858, p. 644.
Meek and Worthen, 1875, pp. 523–524, pl. 30, figs. 1a, b, d.
=*Brachythyris suborbicularis* (Hall, 1858)
S. Weller, 1914, pp. 374–376, pl. 61, figs. 1, 2.
Mississippian, Keokuk.
Keokuk, Iowa; Hall Collection.

Spirifer subrotundatus Hall, 1858
Referred specimen: UC 14214.
Hall, 1858, p. 521, pl. 7, fig. 8b.
=*Spirifer subrotundus* S. Weller, 1914
S. Weller, 1914, pp. 356–357.
Mississippian, Chonopectus Sandstone.
Burlington, Iowa; Hall Collection.
Remarks: UC 14214 is a plaster cast of one of the original specimens used by Hall, 1858.

Spirifer subrotundus S. Weller, 1914
See: *Spirifer subrotundatus* Hall, 1858.

Spirifer subventricosa McChesney, 1860
Holotype: UC 13234.
McChesney, 1860, pp. 44–45.
McChesney, 1865, pl. 1, figs. 4a, 4b.
=*Spirifer opimus* Hall, 1858
McChesney, 1868, p. 35, pl. 1, figs. 4a, 4b.
=*Spirifer rockymontanus* Marcou, 1858
S. Weller, 1898, p. 589.
Pennsylvanian.
Big Creek, near New Harmony, Indiana; Hall Collection.

Spirifer tenuimarginatus Hall, 1858
Holotype: UC 14774.
Hall, 1858, p. 641, pl. 20, figs. 1a–1c.
Hall and Clarke, 1895a, pl. 32, figs. 4, 6.
S. Weller, 1914, pp. 355–356, pl. 48, figs. 1–5.
Mississippian, Keokuk Limestone.
Warsaw, Illinois; Hall Collection.

Spirifer transversa McChesney, 1860
Holotype: UC 13233.
McChesney, 1860, p. 42.
McChesney, 1865, pl. 6, figs. 3a–3c.
McChesney, 1868, p. 34, pl. 6, figs. 3a–3c.
=*Spiriferina transversa* (McChesney, 1860)
S. Weller, 1914, pp. 297–298

Mississippian, Chester Group.
Buzzard's Roost, Alabama; Hall Collection.

Spirifer vespertilio Sowerby, 1844
Referred specimen: UC 17953.
Dana, 1849, p. 685, pl. 2, fig. 3a.

Referred specimen: UC 17954.
Dana, 1849, p. 685, pl. 2, fig. 3c.
Pennsylvanian, "sandstone below the coal."
Black Head, District of Illawarra, New South Wales, Australia; Hall Collection

Spirifer whitneyi owenensis Webster and C. L. Fenton, 1924
Holotype: UC 26123.
Webster and Fenton *in* Fenton and Fenton, 1924, pp. 154–155, pl. 30, figs. 20–22.
Devonian, Hackberry Stage, Lower Owen Beds.
Owen Grove. Iowa; Webster Collection.

Spirifer cf. **whitneyi owenensis** Webster and C. L. Fenton, 1924
Referred specimen: UC 26124.
Webster and Fenton *in* Fenton and Fenton, 1924, p. 155.
Devonian, Hackberry Stage, Owen Dolomite Beds.
Owen Grove, Iowa; Fenton Collection.

Spiriferella neglecta (Hall, 1858)
See: *Spirifer neglectus* Hall, 1858.

Spiriferina subelliptica (McChesney, 1860)
See: *Spirifer subelliptica* McChesney, 1860.

Spiriferina transversa (McChesney, 1860)
See: *Spirifer transversa* McChesney, 1860.

Stenoscisma explanata (McChesney, 1860)
See: *Rhynchonella explanata* McChesney, 1860.

Streptorhynchus filitexta (Hall, 1847)
Referred specimen: UC 27175, original specimen Amer. Mus. Nat. Hist. 702/4.

Hall, 1883b, pl. 39, fig. 3.
=*Strophomena filitexta* (Hall, 1847)
Hall and Clarke, 1892a, p. 251, pl. 9, fig. 3.
=*Strophomena incurvata* (Shepard, 1838)
Winchell and Schuchert, 1893, pp. 385–388.

Referred specimens: UC 27176, two specimens, original specimens Amer. Mus. Nat. Hist. 702/12.
Hall, 1883b, pl. 42, figs. 12, 13.
=*Strophomena filitexta* (Hall, 1847)
Hall and Clarke, 1892a, p. 251, pl. 9A, figs. 12, 13.
=*Strophomena incurvata* (Shepard, 1838)
Winchell and Schuchert, 1893, pp. 385–388.
Ordovician, Platteville Limestone.
Platteville, Wisconsin.

Streptorhynchus inflatus White and Whitfield, 1862
Referred specimen: UC 14218.
White and Whitfield, 1862, p. 293.
=*Orthotetes inflatus* (White and Whitfield, 1862)
S. Weller, 1901, p. 195, pl. 19, figs. 10–12.
=*Schellwienella inflata* (White and Whitfield, 1862)
S. Weller, 1914, pp. 59–61, pl. 4, figs. 7–9.
Mississippian, Kinderhook bed no. 7.
Burlington, Iowa; Hall Collection.
Remarks: UC 14218 is a cast of one of the specimens originally figured by White and Whitfield, 1862.

Streptorhynchus robustus (Hall, 1858)
See: *Orthis robusta* Hall, 1858.

Streptorhynchus (Strophonella?) deltoidea (Conrad, 1839)
=*Strophomena winchelli* Hall and Clarke, 1892
Hall and Clarke, 1892a, pp. 344–345, pl. 9, figs. 10, 12–14.
Winchell and Schuchert, 1893, p. 394, pl. 31, fig. 11.
Hall and Clarke, 1895b, p. 344, pl. 4, figs. 31–33.
Hall and Clarke, 1895c, p. 344, pl. 4, figs. 31–33.
Holotype, not designated, to be selected from UC 27177, UC 27178, UC 27179.

Referred specimen: UC 27177, a pedicle valve; original specimen Amer. Mus. Nat. Hist. 701a/1.
Hall, 1883b, pl. 39, figs. 10, 14.
Ordovician, Platteville Limestone.
Mineral Point, Wisconsin.

Referred specimens: UC 27178, three single valves; original specimen Amer. Mus. Nat. Hist. 701a/2.
Hall, 1883b, pl. 39, fig. 12.
Ordovician, Platteville Limestone.
Janesville, Wisconsin.

Referred specimen: UC 27179, a brachial valve; original specimen Amer. Mus. Nat. Hist. 701a/3.
Hall, 1883b, pl. 39, fig. 13.
Ordovician, Platteville Limestone.
Clifton, Wisconsin.

Stricklandia gaspéensis Billings, 1859
Holotype: UC 12461.
Billings, 1859, pp. 134–135.
=*Stricklandinia gaspensis* (Billings, 1859)
Hall and Clarke, 1895, pl. 73, fig. 11.
=*Stricklandia gaspiensis* Billings, 1859
Cooper *in* Shimer and Shrock, 1944, p. 307, pl. 117, fig. 48.
=*Costistricklandia gaspéensis* (Billings, 1859)
Amsden, 1953, pp. 143–144.
Silurian.
Gaspé, Nova Scotia, Canada; Hall Collection.

Stricklandia gaspiensis Billings, 1859
See: *Stricklandia gaspéensis* Billings, 1859.

Stricklandinia gaspensis (Billings, 1859)
See: *Stricklandia gaspéensis* Billings, 1859.

Stropheodonta (Leptostrophia) magniventra (Hall, 1857)
Referred specimen: UC 594.
Hall and Clarke, 1893, pp. 287–288.
Hall and Clarke, 1895a, pl. 13, fig. 25.
=*Leptostrophia magniventer* (Hall, 1857) museum catalogue

Devonian, Oriskany.
Schoharie County, New York; Hall Collection.
Remarks: *Stropheodonta* Hall, 1852=*Strophodonta* Hall, 1850 Williams *in* Moore, 1965, p. 395.
See also: *Strophomena* (*Strophodonta*) *magniventra* Hall, 1857

Stropheodonta macra (Winchell and Marcy, 1865)
See: *Strophomena macra* Winchell and Marcy, 1865.

Strophodonta ampla (Hall, 1857)
Referred specimen: UC 619, a ventral valve.
Hall, 1867, pp. 92–95, pl. 14, fig. 1i.
=*Strophonella ampla* (Hall, 1857)
Hall, 1879a, pp. 153–154.
Hall, 1883b, pl. 43, fig. 13.
Hall and Clarke, 1892a, p. 293, pl. 12, fig. 13.
=*Strophonella* (*Eostrophonella*) *ampla* (Hall, 1857)
Williams, 1953, p. 48.
Devonian, Schoharie Grit.
Albany County, New York; Hall Collection.

Strophodonta magniventra (Hall, 1857)
See: *Strophomena* (*Strophodonta*) *magniventra* Hall, 1857.

Strophomena filitexta (Hall, 1847)
See: *Streptorhynchus filitexta* (Hall, 1847).

Strophomena incurvata (Shepard, 1838)
See: *Streptorhynchus filitexta* (Hall, 1847).

Strophomena macra Winchell and Marcy, 1865
Holotype: UC 702, a ventral valve.
Winchell and Marcy, 1865, pp. 91–92, pl. 2, fig. 8.
=*Stropheodonta macra* (Winchell and Marcy, 1865)
Schuchert, 1897, p. 424.
=*Strophonella macra* (Winchell and Marcy, 1865) museum catalogue
Silurian, Niagaran.
Bridgeport Quarry, Chicago, Illinois; Hall Collection.

Strophomena (Strophodonta) magniventra Hall, 1857
Referred specimen: UC 20805, wax squeeze of original specimen.
Hall, 1857, p. 54.
=*Strophodonta magniventra* (Hall, 1857)
Hall, 1859, pp. 411–412.
Hall, 1861, pl. 95, fig. 9.
=*Stropheodonta* (*Leptostrophia*) *magniventra* (Hall, 1857)
Schuchert and Maynard, 1913, p. 319.
=*Leptostrophia magniventra* (Hall, 1857)
Stewart *in* Branson, 1922, p. 234.
Devonian, Oriskany Sandstone.
Albany County, New York; Hall Collection.

Strophomena winchelli Hall and Clarke, 1892
See: *Streptorhynchus* (*Strophonella*?) *deltoidea* (Conrad, 1839).

Strophonella ampla (Hall, 1857)
See: *Strophodonta ampla* (Hall, 1857).

Strophonella (Eostrophonella) ampla (Hall, 1857)
See: *Strophodonta ampla* (Hall, 1857).

Strophonella macra (Winchell and Marcy, 1865)
See: *Strophomena macra* (Winchell and Marcy, 1865).

Subrensselandia claypolii (Hall, 1891)
See: *Newberria claypolii* Hall, 1891.

Terebratula amygdala Dana, 1847
Referred specimen: UC 17957.
Dana, 1847, p. 152.
Dana, 1849, p. 682, pl. 1, fig. 2a.
Pennsylvanian, "sandstone below the coal."
Black Head, District of Illawarra, New South Wales, Australia; Hall Collection.

Terebratula elongata Verneuil
Referred specimen: UC 17958.
Dana, 1849, pp. 682–683, pl. 1, figs. 3a, 3b [not 3d].

Pennsylvanian, "sandstone below the coal."
District of Illawarra, New South Wales, Australia; Hall Collection.

Terebratula inornata McChesney, 1860
Holotype: UC 13238.
McChesney, 1860, pp. 48–49.
= *Dielasma inornata* (McChesney, 1860) museum catalogue
Pennsylvanian.
Near Springfield, Sangamon County, Illinois; Hall Collection.

Torynifer pseudolineatus (Hall, 1858)
See: *Spirifer pseudolineatus* Hall, 1858.

Trimerella acuminata Billings, 1862
Referred specimen: UC 12952, a brachial valve.
Hall and Clarke, 1892a, pp. 35–36, pl. 4B, fig. 6.
Silurian, Niagaran.
Port Byron, Illinois; Hall Collection.

Trimerella ohioensis Meek, 1871
Referred specimen: UC 12950.
Hall and Clarke, 1892a, pp. 34–36, pl. 4A, fig. 4.
Cooper *in* Shimer and Shrock, 1944, p. 287, pl. 108, fig. 44.
Silurian, Niagaran.
Rising Sun, Ohio; Hall Collection.

Referred specimen: UC 12951.
Hall and Clarke, 1892a, pp. 34–36, pl. 4A, fig. 8.
Silurian, Niagaran.
Ottawa County, Ohio; Hall Collection.

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